

| TYPE | DATE | TIME | AGENCY | DESCRIPTION | |
|--------------------------|-----------|------|--------|---------------|--|
| Area Forecast Discussion | 9/28/2015 | 2000 | MST | NWS Phoenix | Somewhat breezy conditions will devleop (Thursday) afternoon as pressure gradients tighten with the passage of the trough. |
| Area Forecast Discussion | 9/29/2015 | 0200 | MST | NWS Phoenix | A cooling trend will begin Friday as low pressure dives into the intermountain west...The only real impacts noticeable form this system will be locally breezy conditions Thursday and Firday. |
| Area Forecast Discussion | 9/29/2015 | 0200 | PDT | NWS San Diego | A low pressure trough off the northern California coast continues to spin southwest flow across southern California. |
| Area Forecast Discussion | 9/29/2015 | 0815 | PDT | NWS San Diego | An approaching shortwave trough from the north should increase our onshore gradients on Thursday...bringing the first in a series of coold downs to our region as well as gusty winds through our passes and deserts. |
| Area Forecast Discussion | 9/29/2015 | 1350 | PDT | NWS San Diego | On Thursday the first in a series of upper level systems will brush across our northernmost County Warning Area...bringing tighter gradients...Gradients may be strong enough to generate advisory level wind gusts through the windy passes and desert slopes late Thursday. |
| Fire Weather Forecast | 9/29/2015 | 1509 | MST | NWS Phoenix | Winds will be light...except for local gusts along portions of the lower Colorado River valley. |
| Area Forecast Discussion | 9/29/2015 | 2030 | MST | NWS Phoenix | A cooling trend will begin as low pressure dives into the intermountain west. There will be some increase in afternoon breeziness...on Thursday as pressure gradients tighten ahead of the approaching upper trough. |
| Area Forecast Discussion | 9/29/2015 | 2128 | MST | NWS Phoenix | A passing low pressure trough will bring gusty westerly winds and coolingThursday. |
| Area Forecast Discussion | 9/30/2015 | 0225 | MST | NWS Phoenix | A cooling trend will begin as low pressure dives into the intermountain west. Winds will increase somewhat during the afternoon hours though not unusually strong. |
| Area Forecast Discussion | 9/30/2015 | 0230 | PDT | NWS San Diego | A passing low pressure trough will bring gusty westerly winds and coolingThursday. |
| Fire Weather Forecast | 9/30/2015 | 0448 | MST | NWS Phoenix | More noticeable winds develop Thursday as a weather system brushes the forecast area. |
| Area Forecast Discussion | 9/30/2015 | 0805 | MST | NWS Phoenix | A cooling trend will begin as low pressure dives into the intermountain west. |
| Area Forecast Discussion | 9/30/2015 | 0900 | PDT | NWS San Diego | A passing low pressure trough will bring cooler weather with locally gusty westerly winds Thursday. |
| Area Forecast Discussion | 9/30/2015 | 1445 | MST | NWS Phoenix | On Thursday an area of low pressure devleping off the northern California coast is forecast to push inland into nortern/central California and western Nevada...tightening gradients across southeastern California and western Arizona. Will see increasing breeziness over the western deserts Thursday afternoon. |
| Area Forecast Discussion | 9/30/2015 | 2100 | PDT | NWS San Diego | Cooler weather with gusty westerly winds Thursday through Thursday night...Gusty west winds in the mountains and adjacent desert areas. |
| Area Forecast Discussion | 10/1/2015 | 0300 | PDT | NWS San Diego | A trough of low pressure moving through California today will bring cooler weather today...along with locally strong westerly winds late today in the mountains and deserts. |

| TYPE | DATE | TIME | AGENCY | DESCRIPTION | |
|--------------------------|-----------|------|--------|---------------|---|
| Fire Weather Forecast | 10/1/2015 | 0336 | MST | NWS Phoenix | Winds will become locally gusty this afternoon and evening. Strongest winds will be seen in the typical windy areas of southeast California. |
| Area Forecast Discussion | 10/1/2015 | 0356 | MST | NWS Phoenix | As the system tracks eastward across the western state it will displace the ridge. In the process there will be an upswing in the wind speeds for this afternoon and evening...especially over southeastern California. |
| Area Forecast Discussion | 10/1/2015 | 0450 | MST | NWS Phoenix | High pressure gives way to a couple of low pressure systems that will affect the western states. The first will be dry and lead to locally breezy conditions this afternoon and evening. |
| Area Forecast Discussion | 10/1/2015 | 0915 | PDT | NWS San Diego | A trough of low pressure moving through California today will bring cooler weather today...along with locally strong westerly winds late today in the mountains and deserts. Winds will increase later this afternoon with gusts through the most favored passes approaching advisory level. |
| Area Forecast Discussion | 10/1/2015 | 0916 | MST | NWS Phoenix | High pressure gives way to a couple of low pressure systems that will affect the western states. The first will be dry and lead to locally breezy conditions this afternoon and evening... There will be an upswing in the wind speeds for this afternoon and evening...especially over southeast California. |
| Area Forecast Discussion | 10/1/2015 | 1418 | PDT | NWS San Diego | A trough of low pressure moving through California today will bring cooler weather along with strong and gusty westerly winds this evening. |
| Area Forecast Discussion | 10/1/2015 | 1450 | MST | NWS Phoenix | A couple of low pressure systems will affect the western states the next few days. The first will be dry and lead to locally breezy conditions this evening. |
| Area Forecast Discussion | 10/1/2015 | 2110 | PDT | NWS San Diego | Strong and gusty west winds this evening will continue through Friday morning...The onshore flow has increased significantly...with several locations in the mountains reporting wind gusts of 25-30 mph in the last hour. |

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FXUS65 KPSR 290305
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
800 PM MST MON SEP 28 2015

.SYNOPSIS...

VERY STRONG HIGH PRESSURE ALOFT OVER THE DESERT SOUTHWEST WILL BRING WELL ABOVE NORMAL TEMPERATURES TO THE REGION THROUGH MUCH OF THIS WEEK...WITH NEAR RECORD TEMPERATURES POSSIBLE ON WEDNESDAY AND THURSDAY. A COOLING TREND IS ANTICIPATED FRIDAY THROUGH SUNDAY AS LOW PRESSURE BEGINS TO DEVELOP OVER THE INTERMOUNTAIN WEST.

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.DISCUSSION...

THE REGION WILL BE UNDER A NEARLY STATIONARY...BUT STRONG HIGH PRESSURE SYSTEM FOR THE NEXT SEVERAL DAYS. SOME HIGH CLOUDS AT TIMES ARE EXPECTED...OTHERWISE DRY WEATHER WITH MORE UNSEASONABLY HOT TEMPERATURES ARE FORECAST. NO UPDATES NECESSARY.

.PREVIOUS DISCUSSION...300 PM MST...

STRONG HIGH PRESSURE ALOFT CONTINUES TO BUILD OVER THE DESERT SOUTHWEST...WITH H5 HEIGHTS RUNNING NEAR 590DM ACROSS SRN ARIZONA PER THE MORNING PLOTS. IR IMAGERY AT 2 PM SHOWED SOME HIGH CLOUDS BLEEDING THROUGH THE RIDGE AND INTO AZ BUT OVERALL SKIES WERE MOSTLY SUNNY. SURFACE DEWPOINTS OVER THE CENTRAL DESERTS EARLY THIS AFTERNOON WERE A BIT ELEVATED...IN THE LOW TO MID 50S...BUT THESE READINGS ARE EXPECTED TO FALL INTO THE 40S OVER THE NEXT COUPLE OF DAYS AS DRIER AIR ALOFT CONTINUES TO MIX TO THE SURFACE.

TUESDAY AND WEDNESDAY...STRONG PRESSURE WILL PERSIST OVER THE DESERT SOUTHWEST...AND WITH H5 HEIGHTS RISING TO AROUND 591DM WE CAN EXPECT HIGH TEMPS TO CLIMB ANOTHER DEGREE OR TWO WITH PHOENIX REACHING AROUND 105 BY WEDNESDAY...A READING THAT IS 10 DEGREES ABOVE SEASONAL NORMAL. HOTTER WESTERN DESERTS MAY APPROACH 110 DEGREES. THE RECORD AT PHOENIX TUESDAY AND WEDNESDAY IS 107 SO THE WARMER DESERTS WILL START TO APPROACH RECORD LEVELS. EXPECT SKIES TO BE GENERALLY CLEAR EACH DAY.

ON THURSDAY...PROGS AGREE THAT A LOW PRESSURE TROF WILL PUSH EASTWARD AND RIDE OVER THE TOP OF THE RIDGE...LOWERING HEIGHTS ALOFT SLIGHTLY. STILL...THE COOLING WILL BE MOSTLY ALOFT AND THE BOUNDARY LAYER WILL STAY QUITE WARM WITH PHOENIX FORECAST TO REMAIN AT 105. RECORD AT PHOENIX REMAINS AT 107 SO AGAIN HIGHS WILL REACH CLOSE TO RECORD LEVELS. SOMEWHAT BREEZY CONDITIONS WILL DEVELOP DURING THE AFTERNOON AS PRESSURE GRADIENTS TIGHTEN WITH THE PASSAGE OF THE

TROF. SKIES WILL BE SUNNY.ONCE AGAIN...NO AVIATION IMPACTS EXPECTED ACROSS THE REGION AS STRONG HIGH PRESSURE ALOFT PERSISTS KEEPING SKIES MOSTLY CLEAR NEXT 24 HOURS AT LEAST. THE ONLY CLOUDS WILL BE FEW-SCT SOMEWHAT THIN HIGH CLOUDS OVERNIGHT TONIGHT AND INTO THE DAY TUESDAY. WINDS WILL FOLLOW NORMAL DIURNAL TENDENCIES MOST PLACES WITH SPEEDS MOSTLY AOB 10 KNOTS.

FRIDAY...ANTICIPATE COOLING TREND STARTING FRIDAY AS THE LOWER LEVELS CATCH UP. OTHERWISE ANTICIPATE SOME MODERATE BREEZINESS THURSDAY AFTERNOON AND EVENING...STRONGER WINDS OVER PORTIONS OF SOUTHEAST CALIFORNIA. BY THE END OF THE WORK WEEK...HIGH PRESSURE WILL HAVE RETROGRESSED WITH A HIGH AMPLITUDE RIDGE NEAR THE WEST COAST AND A NEW SOUTHERN BRANCH LOW JUST UPSTREAM OF IT. MEANWHILE...TROPICAL STORM MARTY IS FORECAST BY NHC TO WEAKEN INTO A TROPICAL DEPRESSION OFF THE COAST OF MEXICO...HAVING MADE LITTLE NORTHERLY PROGRESS BUT SOME WESTERLY MOVEMENT.

SATURDAY INTO MONDAY... MODEL DIFFERENCES BECOME QUITE LARGE NEXT WEEKEND. THE ECMWF DEVELOPS A DEEP CLOSED LOW OVER THE PACIFIC NORTHWEST AND DIGS IT SOUTH-SOUTHEASTWARD WITH THE LOW CENTERED OVER THE SAN JOAQUIN VALLEY BY 00Z MONDAY. CONVERSELY THE GFS HAS A RIDGE AXIS OVER THE WEST. THE GEM IS MUCH CLOSER TO THE ECMWF BUT IT HAS HAD QUITE A BIT OF RUN TO RUN FLIP-FLOPPING. THE ENSEMBLE MEANS GENERALLY SUPPORT THEIR RESPECTIVE DETERMINISTIC RUNS. ECMWF AND GEM DEVELOP QPF OVER ARIZONA ON SUNDAY DUE TO THE ADVECTION OF TROPICAL MOISTURE...NOT SO MUCH WITHIN THE LOW ITSELF. THE MOISTURE BEING DEPICTED IS ASSOCIATED WITH REMNANTS OF MARTY. WHILE THE ECMWF HAS BEEN PRETTY CONSISTENT WITH THE UPPER LOW IT HAS HAD A MAJOR UPWARD TREND IN QPF WITH THE LATEST RUN. THE KEY DIFFERENCE IS IN THE HANDLING OF MARTY WHEREIN THE LATEST RUN TRACKS IT FURTHER NORTHWEST AND THUS THE MOISTURE PLUME ALIGNS FURTHER WEST. IN LIGHT OF MODEL SUPPORT FOR SOME SORT OF TROUGH/LOW DEVELOPING NEAR US AND PER COORDINATION WITH ADJACENT OFFICES...INTRODUCED SLIGHT CHANCE POPS OVER SOUTH-CENTRAL ARIZONA SUNDAY INTO MONDAY. OF NOTE...A LOT OF THINGS HAVE TO COME TOGETHER JUST RIGHT FOR ECMWF SCENARIO TO PAN OUT. UNCERTAINTY ABOUNDS IN THIS TIME FRAME. AT LEAST IT LOOKS LIKE WE WILL SEE SOME COOLING BUT DO NOT COUNT ON THINGS DROPPING BELOW NORMAL.

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.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...AND SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

A STRONG HIGH PRESSURE SYSTEM WILL CONTINUE OVER THE REGION FOR THE NEXT SEVERAL DAYS PRODUCING OCCASIONAL HIGH CLOUDS AND LIGHT WIND UNDER 10 KNOTS.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

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.CLIMATE...

RECORD HIGHS FOR LATER THIS WEEK...

| DATE | PHOENIX | YUMA |
|---------|-------------|-------------|
| ----- | ----- | ----- |
| SEPT 30 | 107 IN 2010 | 109 IN 2012 |
| OCT 1 | 107 IN 1980 | 110 IN 1980 |

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.FIRE WEATHER...

THURSDAY THROUGH MONDAY...TEMPERATURES WILL STEADILY MODERATE WITH MUCH ABOVE AVERAGE VALUES DURING THE MIDDLE OF THE WEEK COOLING TO NEAR NORMAL LEVELS BY THE END OF THE WEEKEND. AFTERNOON MINIMUM HUMIDITY LEVELS IN THE TEENS WILL INCREASE CLOSER TO A 20 TO 25 PERCENT RANGE BY THE END OF THE PERIOD WITH THE HIGHEST HUMIDITY EXPECTED OVER SOUTH CENTRAL ARIZONA SUNDAY INTO MONDAY. THERE WILL BE A SLIGHT CHANCE FOR AFTERNOON AND EARLY EVENING THUNDERSTORMS ACROSS SOUTH CENTRAL ARIZONA SUNDAY INTO MONDAY AS SOME TROPICAL MOISTURE WORKS ITS WAY NORTH AND INTO EASTERN ARIZONA. OVERNIGHT RECOVERY WILL BE FAIR TO GOOD. SOMEWHAT BREEZY CONDITIONS WILL BE POSSIBLE THURSDAY AND FRIDAY AFTERNOON...HOWEVER NOT UNUSUALLY STRONG. OTHERWISE...NO SUBSTANTIAL FIRE WEATHER CONCERNS IN THIS TIME FRAME.

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.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING PROCEDURES.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...VASQUEZ/CB/AJ

AVIATION...VASQUEZ

CLIMATE...MO

FIRE WEATHER...MO/CB

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778
FXUS65 KPSR 290903
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
200 AM MST TUE SEP 29 2015

.SYNOPSIS...

VERY STRONG HIGH PRESSURE OVER THE DESERT SOUTHWEST WILL SUPPORT WELL ABOVE NORMAL TEMPERATURES THROUGH MUCH OF THE WEEK...WITH NEAR RECORD HIGH TEMPERATURES WEDNESDAY AND THURSDAY. A COOLING TREND WILL BEGIN FRIDAY AS LOW PRESSURE DIVES INTO THE INTERMOUNTAIN WEST...AND READINGS FINALLY SETTLE CLOSER TO AVERAGE. VERY SLIGHT CHANCES FOR RAIN WILL ENTER THE SOUTHWEST EARLY NEXT WEEK.

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.DISCUSSION...

QUASI-STATIONARY RIDGING REMAINS PARKED OVER THE SWRN CONUS EARLY THIS MORNING...WITH 00Z REGIONAL SOUNDING DATA SAMPLING WIDESPREAD H5 590DM HEIGHTS AND H7 TEMPERATURES IN A +9C TO +13C RANGE. ONLY A MODEST INCREASE IN THERMODYNAMIC PROFILES WILL OCCUR ACROSS THE REGION TODAY...AND OVERALL A NEAR PERSISTENCE FORECAST APPEARS MOST APPROPRIATE. HEIGHTS ALOFT (H5 READINGS NEARING 592DM) AND LOW LEVEL THICKNESSES (1000-850MB AOA 145DM) WILL PEAK ON WEDNESDAY AFTERNOON...WITH FULL INSOLATION AND SEASONABLY DEEP MIXING YIELDING HIGH TEMPERATURES THAT WILL MAKE A RUN TOWARDS RECORD LEVELS (SEE CLIMATE SECTION BELOW).

POSITIVELY TILTED TROUGHING OVER THE EAST CENTRAL PACIFIC WILL TRANSLATE ACROSS CNTRL CALIFORNIA AND INTO THE GREAT BASIN THURSDAY AND FRIDAY IN RESPONSE TO A SERIES OF UPSTREAM SHORTWAVES DIGGING INTO THE GULF OF ALASKA. NOTABLE HEIGHT FALLS WILL SPILL INTO ARIZONA (H5 HEIGHTS FALLING INTO A 582-588DM RANGE)...AND RECENT MODEL OUTPUT SUGGESTS IMPACTS ON TEMPERATURES WILL BE MORE DISTINCT THAN PREVIOUSLY ADVERTISED. BASED ON THESE TRENDS AND BEST PERFORMING HISTORICAL GUIDANCE...HAVE TRIMMED SEVERAL DEGREES FROM PREVIOUSLY FORECAST VALUES INTO THE WEEKEND WITH HIGHS LARGELY FALLING BELOW THE 100F THRESHOLD. ASIDE FROM TEMPERATURES...THE ONLY REAL IMPACTS NOTICEABLE FROM THIS SYSTEM WILL BE LOCALLY BREEZY CONDITIONS THURSDAY AND FRIDAY AFTERNOON...THOUGH NOTHING UNUSUAL FOR THIS TIME OF YEAR.

SUBSTANTIAL UNCERTAINTY EXISTS IN FORECASTING EARLY NEXT WEEK AS OPERATIONAL AND ENSEMBLE MEMBERS LACK CONSISTENCY AND AGREEMENT WITH RESPECT TO NUMEROUS SALIENT FORCING FEATURES. FOREMOST...EVOLUTION OF A PATTERN TRANSITION/REALIGNMENT HAS BEEN EXTREMELY ERRATICALLY FORECAST BY THE NAEFS AND ECMWF ENSEMBLE SUITES...AND SEVERAL MEMBERS RAPIDLY BECOME OUT OF PHASE AS EARLY AS SUNDAY. THE KEY ATMOSPHERIC PLAYERS ARE A RETROGRADING AND AMPLIFYING RIDGE OVER THE EAST PACIFIC (GENERALLY WELL FORECAST BY ALL ENSEMBLE MEMBERS) AND

SHORTWAVE ENERGY/JET STREAK BREAKING OVER SAID RIDGE DIGGING TOWARDS THE SWRN CONUS. WITH A WEAKNESS IN THE HEIGHT FIELDS ALOFT LEFT BY THE SYSTEM LATE THIS WEEK...FEEL SUBSEQUENT TROUGHING FILLING THIS VOID IS MORE LIKELY THAN RIDGING SHOWN BY SEVERAL GFS ENSEMBLE MEMBERS. THE MAJORITY OF NAEFS ENSEMBLE MEMBERS SUPPORT A SOLUTION CLOSER TO A MULTI-MODEL (ECMWF/GFS/GEM) BLEND OF SHORTWAVE ENERGY PROPAGATING THROUGH THE FOUR CORNERS (I.E. NOT AS DEEP AS THE 00Z OPERATIONAL ECMWF NOR AS SLOW AND FAR SOUTH AS THE 00Z OPERATIONAL GFS).

ADDING TO COMPLEXITY OF THIS FORECAST IS THE POTENTIAL INFUSION (OR COMPLETE LACK THEREOF) OF MOISTURE ASSOCIATED WITH THE REMNANTS OF TS MARTY. HURRICANE SPECIFIC MODELS AND NHC OFFICIAL FORECASTS DEPICT MARTY SPINNING AND DETERIORATING ALONG THE MEXICAN COAST THROUGH THE END OF THE WEEK. IF THE AFOREMENTIONED SHORTWAVE/JET STREAK BECOMES MORE PROGRESSIVE THROUGH THE FOUR CORNERS...MIDLEVEL WINDS WILL QUICKLY BECOME MORE VEERED DEFLECTING MOISTURE TOWARDS SERN ARIZONA/NEW MEXICO. HOWEVER...IF A SLOWER AND MORE RETROGRESSIVE SOLUTION COMES TO FRUITION...BACKED MIDLEVEL WINDS WOULD AID IN BETTER POLEWARD MOISTURE TRANSPORT THROUGH THE BULK OF ARIZONA. WITH SUCH LARGE SPREAD AMONG ENSEMBLE MEMBERS AND HUGE UNCERTAINTIES HISTORICALLY IN MOISTURE AVAILABILITY FROM TROPICAL SYSTEMS...HAVE KEPT POPS VERY MODEST UNTIL SOME SEMBLANCE OF CONFIDENCE CAN BE ATTAINED.

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.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...AND SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

A STRONG HIGH PRESSURE SYSTEM WILL CONTINUE OVER THE REGION FOR THE NEXT SEVERAL DAYS PRODUCING OCCASIONAL HIGH CLOUDS AND LIGHT WIND UNDER 10 KNOTS.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

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.CLIMATE...

RECORD HIGHS FOR LATER THIS WEEK...

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.FIRE WEATHER...

THURSDAY THROUGH MONDAY...

TEMPERATURES WILL STEADILY MODERATE WITH MUCH ABOVE AVERAGE VALUES DURING THE MIDDLE OF THE WEEK COOLING TO NEAR NORMAL LEVELS BY THE

END OF THE WEEKEND. AFTERNOON MINIMUM HUMIDITY LEVELS IN THE TEENS WILL INCREASE CLOSER TO A 20 TO 25 PERCENT RANGE BY THE END OF THE PERIOD WITH THE HIGHEST HUMIDITY EXPECTED OVER SOUTH CENTRAL ARIZONA SUNDAY INTO MONDAY. THERE WILL BE A SLIGHT CHANCE FOR AFTERNOON AND EARLY EVENING THUNDERSTORMS ACROSS SOUTH CENTRAL ARIZONA SUNDAY INTO MONDAY AS SOME TROPICAL MOISTURE WORKS ITS WAY NORTH AND INTO EASTERN ARIZONA. OVERNIGHT RECOVERY WILL BE FAIR TO GOOD. SOMEWHAT BREEZY CONDITIONS WILL BE POSSIBLE THURSDAY AND FRIDAY AFTERNOON...HOWEVER NOT UNUSUALLY STRONG. OTHERWISE...NO SUBSTANTIAL FIRE WEATHER CONCERNS IN THIS TIME FRAME.

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.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING PROCEDURES.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...MO

AVIATION...VASQUEZ

CLIMATE...MO

FIRE WEATHER...MO/CB

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FXUS66 KSGX 290855
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
200 AM PDT TUE SEP 29 2015

.SYNOPSIS... FAIR AND WARM WEATHER WILL CONTINUE THROUGH SATURDAY
WITH ABOVE NORMAL TEMPERATURES AND A FAIRLY SHALLOW MARINE LAYER.
SUNDAY AND MONDAY WILL BE COOLER AS A TROUGH OF LOW PRESSURE COMES
DOWN THE COAST. IT WILL DEEPEN THE MARINE LAYER AND BRING A SLIGHT
CHANCE OF SHOWERS.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO
COUNTIES...

ONE LONELY PATCH OF LOW CLOUDS ALONG THE COAST OF CENTRAL SAN DIEGO
COUNTY IS ALL WE CAN MUSTER SO FAR THIS MORNING...BUT WE EXPECT
AREAS OF LOW CLOUDS WILL INCREASE THROUGH SUNRISE. OTHER THAN SOME
COASTALITES WAKING TO FIND A CLOUD OVERHEAD...TODAY WILL BE QUITE
SUNNY. A LOW PRESSURE TROUGH OFF THE NORTHERN CALIFORNIA COAST
CONTINUES TO SPIN SOUTHWEST FLOW ACROSS SOUTHERN CALIFORNIA WITH A
HIGH PRESSURE RIDGE TO THE EAST. THIS LOW EVENTUALLY GAINS SOME
TRACTION AND MOVES EASTWARD THROUGH NORTHERN CALIFORNIA AND NEVADA
ON THURSDAY. THIS WILL NOT CHANGE OUR WEATHER MUCH HERE...JUST BRING
SLIGHTLY COOLER WEATHER AND MAYBE A BOOST TO THE NOCTURNAL COASTAL
CLOUD COVERAGE. WEAKER ONSHORE FLOW (OFFSHORE TO THE NORTH) FOLLOWS
FRIDAY AND SATURDAY TO KEEP THE MARINE LAYER SHALLOW AND CLOUDS
CONFINED TO THE COAST DURING EARLY MORNINGS. TEMPERATURES WILL
REMAIN ABOVE NORMAL AND THURSDAY LOOKS LIKE THE COOLEST DAY THIS
WEEK. A CURIOUS CUT OFF LOW SEEMS TO BE TAKING AIM AT CALIFORNIA
EARLY NEXT WEEK. IT STARTS OUT IN BRITISH COLUMBIA AND PLUNGES
SOUTHWARD EXACTLY FOLLOWING THE WEST COAST. IT STRENGTHENS AS IT
APPROACHES AND IT LOOKS CAPABLE OF BRINGING SHOWERS TO OUR REGION ON
SUNDAY AND POSSIBLY MONDAY. THE EURO AND CANADIAN MODELS AGREE MORE
ON THE SUNDAY TIMING WHILE THE GFS MODEL DELAYS IT ABOUT HALF A
DAY...LATE SUNDAY INTO MONDAY MORNING. RIGHT NOW IT LOOKS LIKE A
PRECIP EVENT COMING OUT OF AN ENHANCED MARINE LAYER...BUT IT MAY
HAVE THE ENERGY TO DO A LITTLE MORE. SLIGHT CHANCES OF RAIN HAVE
BEEN INTRODUCED INTO THE FORECAST SUNDAY FOR ALL AREAS EXCEPT
DESERTS. THIS WILL BE ONE OF THOSE FEATURES THAT WILL BE HARD TO
PREDICT IN COMING DAYS...AS CUTOFF LOWS COMMONLY ARE THIS TIME OF
YEAR...SO EXPECT QUITE A BIT OF FORECAST ADJUSTING AS WE GET CLOSER.

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.AVIATION...

290810Z...COAST...PATCHY BKN-OVC CLOUDS MAY CONTINUE TO DEVELOP WITHIN 5-15 SM OF THE COAST THROUGH 1500 UTC...WITH BASES AROUND 700-900 FT MSL AND TOPS AROUND 800-1000 FT MSL. LOCAL VIS AOB 1/2 SM DUE TO FOG IS POSSIBLE...MAINLY FOR HIGHER COASTAL TERRAIN/MESAS...SUCH AS KCRQ. CONFIDENCE IN LOW CLOUD OCCURRENCE FOR KSAN AND KSNA IS LOW. ANY LOW CLOUDS SHOULD CLEAR OUT DURING THE 1500-1700 UTC TIME-FRAME. 1700-30/0400 UTC...UNRESTRICTED VIS AND DECREASING CLOUDS AOA 20000 FT MSL. 30/0400-1500 UTC...PATCHY BKN-OVC CLOUDS POSSIBLY DEVELOPING ONCE AGAIN 5-15 SM INLAND WITH SIMILAR BASES/TOPS AS THIS MORNING.

VALLEYS/MOUNTAINS/DESERTS...FEW-SCT CLOUDS AOA 20000 FT BECOMING SKC AFTER 30/0000 UTC. UNRESTRICTED VIS THROUGH WEDNESDAY MORNING.

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.MARINE...

110 AM...NORTHWESTERLY WIND GUSTS OF 20 KT WILL BE POSSIBLE IN THE OUTER WATERS DURING THE AFTERNOON AND EVENING HOURS EACH DAY THROUGH THURSDAY. OTHERWISE...NO HAZARDOUS MARINE WEATHER EXPECTED THROUGH SATURDAY.

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.SKYWARN...

SKYWARN ACTIVATION WILL NOT BE NEEDED TODAY.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

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PUBLIC...MM

AVIATION/MARINE...HARRISON

IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

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AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
815 AM PDT TUE SEP 29 2015

.SYNOPSIS... FAIR AND WARM WEATHER WILL CONTINUE THROUGH SATURDAY
WITH ABOVE NORMAL TEMPERATURES AND A FAIRLY SHALLOW MARINE LAYER.
SUNDAY AND MONDAY WILL BE COOLER AS A TROUGH OF LOW PRESSURE COMES
DOWN THE COAST. IT WILL DEEPEN THE MARINE LAYER AND BRING A SLIGHT
CHANCE OF SHOWERS.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO
COUNTIES...

A FEW PATCHES OF COASTAL STRATUS WILL DIMINISH BY MIDDAY WITH
GENERALLY SUNNY SKIES FOR THE REMAINDER OF THE DAY. HIGH CLOUDS
CONTINUE TO STREAM NORTHEAST FROM THE SUBTROPICAL CENTRAL PACIFIC
BUT WILL REMAIN WELL TO THE NORTH OF SOCAL TODAY. GRADIENTS ARE
ONSHORE BUT QUITE LIGHT THIS MORNING. VERY SLIGHT LOWERING OF
HEIGHTS TODAY WILL KNOCK MAX TEMPS DOWN A COUPLE DEGREES ACROSS THE
BOARD BUT TEMPS WILL REMAIN ABOVE NORMAL FOR THE NEXT COUPLE DAYS.

AN APPROACHING SHORTWAVE TROUGH FROM THE NORTH SHOULD INCREASE OUR
ONSHORE GRADIENTS ON THURSDAY...BRINGING THE FIRST IN A SERIES OF
COOLDOWNS FOR THE REGION AS WELL AS GUSTY WINDS THROUGH OUR PASSES
AND DESERTS.

LOW CONFIDENCE REMAINS ATTM FOR THE WEEKEND WEATHER...WITH A
POSSIBLE DEEPER LOW AND UPPER LEVEL TROUGH DROPPING DOWN THE COAST.
A SLIGHT CHANCE OF SHOWERS REMAINS IN THE FORECAST FOR SUNDAY WITH
THE TROUGH PASSAGE.

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.AVIATION...

291515Z...COAST...MOSTLY CLEAR WITH UNRESTRICTED VIS THROUGH 04Z.
AFTER 04Z...SCT-BKN005-007 TOPS 009 FORMING NEAR THE COAST AND
SPREADING 5-15SM INLAND THROUGH 15Z. THERE WILL BE AREAS OF FOG WITH
LOCAL VIS AOB 1SM...BUT CONFIDENCE IS LOW THAT ANY OF THESE POCKETS
OF LOW CLOUDS AND FOG WILL SETTLE OVER KSAN...KCRQ AND KSNA. PATCHY
LOW CLOUDS AND FOG WILL CLEAR OUT WEDNESDAY BETWEEN 14-16Z.

VALLEYS/MOUNTAINS/DESERTS...FEW-SCT CLOUDS AOA 20000 FT WITH
UNRESTRICTED VIS THROUGH WEDNESDAY MORNING.

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.MARINE...

815 AM...TODAY AND WEDNESDAY...NORTHWEST WINDS GUSTING TO
20 KT OVER THE OUTER WATERS EACH AFTERNOON AND EVENING.

THURSDAY...SLIGHTLY STRONGER WINDS OVER THE OUTER WATERS WITH GUSTS
FROM 20 TO 25 KT IN THE AFTERNOON AND EVENING.

FRIDAY AND SATURDAY...LIGHTER WINDS WITH NO HAZARDOUS MARINE WEATHER
EXPECTED.

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.SKYWARN...

SKYWARN ACTIVATION WILL NOT BE NEEDED TODAY.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

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PUBLIC...JMB

AVIATION/MARINE...MOEDE

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AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
150 PM PDT TUE SEP 29 2015

.SYNOPSIS... FAIR AND WARM WEATHER WILL CONTINUE THROUGH SATURDAY WITH ABOVE NORMAL TEMPERATURES AND A FAIRLY SHALLOW MARINE LAYER. SUNDAY AND MONDAY WILL BE COOLER AS A TROUGH OF LOW PRESSURE COMES DOWN THE COAST. IT WILL DEEPEN THE MARINE LAYER AND BRING A SLIGHT CHANCE OF SHOWERS.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

ANOTHER VERY WARM DAY TODAY ACROSS FAR SOUTHERN CALIFORNIA WITH TEMPERATURES CONTINUING TO RUN ABOUT 10 DEGREES ABOVE NORMAL. ONSHORE GRADIENTS CONTINUE TO BE ON THE LIGHT SIDE. CLEAR SKIES ACROSS THE REGION AND THE MINIMAL MORNING STRATUS QUICKLY DISSIPATED BEFORE MIDDAY.

THROUGH WEDNESDAY...NOT MUCH CHANGE IN THE SYNOPTIC PATTERN WITH WARM TEMPERATURES CONTINUING ALONG AND DRY SW FLOW WITH WEAK ONSHORE FLOW NEAR THE SURFACE. TEMPS WILL CONTINUE TO RUN NEARLY 10 DEGREES ABOVE NORMAL MOST LOCATIONS.

ON THURSDAY THE FIRST IN A SERIES OF UPPER LEVEL SYSTEMS WILL BRUSH ACROSS OUR NORTHERNMOST COUNTY WARNING AREA...BRINGING TIGHTER GRADIENTS AND COOLER TEMPERATURES ALOFT...ALTHOUGH THIS SYSTEM WILL BE QUITE MOISTURE STARVED SO WE'RE NOT EXPECTING ANY PRECIPITATION. GRADIENTS MAY BE STRONG ENOUGH TO GENERATE ADVISORY LEVEL WIND GUSTS THROUGH THE WINDY PASSES AND DESERTS SLOPES LATE THURSDAY THROUGH THURSDAY NIGHT...AND MAY NEED TO ISSUE A WIND ADVISORY ON LATER SHIFTS DUE TO THE GRADIENTS.

BRIEF RIDGING FOR FRIDAY AND SATURDAY AND TEMPERATURES WILL LIKELY REBOUND TO WELL ABOVE NORMAL LEVELS ONCE AGAIN. OFFSHORE FLOW COULD DRAMATICALLY KICK TEMPS EVEN HIGHER THAN EXPECTED IF IT DEVELOPS AS THE GFS HAS INDICATED ON THE LATEST RUN.

MODELS ARE COMING INTO BETTER AGREEMENT NOW FOR THE SUNDAY TO MONDAY WEATHER SYSTEM WITH THE EC CONTINUING TO INDICATE A VERY STRONG LOW DROPPING SOUTH ALONG THE NORTHERN CALIFORNIA COAST BEFORE HEADING INLAND SOMEWHERE ACROSS CENTRAL CALIFORNIA. THIS PATTERN COULD BRING A CHANCE OF RAIN TO OUR AREA DEPENDING ON THE STRENGTH OF MOISTURE ADVECTION INTO THE SYSTEM. FOR NOW WE HAVE INDICATED A CHANCE OF SHOWERS FOR LATE SUNDAY THROUGH MONDAY FOR

MOST AREAS EXCEPT THE LOWER DESERTS. STRONG WINDS COULD ONCE AGAIN BE A CONCERN WITH THIS SYSTEM AS WELL.

BEYOND THE SUNDAY-MONDAY SYSTEM...ONCE AGAIN A LOT OF UNCERTAINTY IN THE SYNOPTIC PATTERN WITH THE EC INDICATING A STRONG RIDGE COULD DEVELOP ALONG THE EASTERN PACIFIC AND OTHER SCENARIOS BRING BRISK ZONAL FLOW WITH EMBEDDED WEATHER SYSTEMS INTO MID NEXT WEEK.

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.AVIATION...

292000Z...COASTAL ZONE...MOSTLY CLEAR WITH UNRESTRICTED VIS THROUGH 04Z. AFTER 04Z...SCT-BKN005-007 TOPS 009 FORMING NEAR THE COAST AND SPREADING 5-15SM INLAND THROUGH 15Z. THERE WILL BE PATCHY FOG WITH LOCAL VIS AOB 1SM...BUT CONFIDENCE IS LOW THAT ANY LOW CLOUDS AND FOG WILL SETTLE OVER KSAN...KCRQ AND KSNA. LOW CLOUDS AND FOG WILL CLEAR OUT WEDNESDAY BETWEEN 14-16Z. AFT 16Z...MOSTLY CLEAR WITH UNRESTRICTED.

VALLEYS/MOUNTAINS/DESERTS...FEW-SCT CLOUDS AOA 20000 FT WITH UNRESTRICTED VIS THROUGH WEDNESDAY.

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.MARINE...

100 PM...THIS AFTERNOON THROUGH WEDNESDAY...NORTHWEST WINDS GUSTING TO 20 KT OVER THE OUTER WATERS EACH AFTERNOON AND EVENING.

THURSDAY...SLIGHTLY STRONGER WINDS OVER THE OUTER WATERS WITH GUSTS OF 20 TO 25 KT IN THE AFTERNOON AND EVENING.

FRIDAY AND SATURDAY...LIGHTER WINDS WITH NO HAZARDOUS MARINE WEATHER EXPECTED.

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.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

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PUBLIC...BROTHERTON

AVIATION/MARINE...MOEDE

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FNUS55 KPSR 292209
FWFPSR

FIRE WEATHER PLANNING FORECAST FOR SOUTHWEST AND SOUTH-CENTRAL
ARIZONA AND SOUTHEAST CALIFORNIA
NATIONAL WEATHER SERVICE PHOENIX AZ
309 PM MST TUE SEP 29 2015

.DISCUSSION...
DRY CONDITIONS AND WELL ABOVE NORMAL TEMPERATURES CONTINUE WEDNESDAY
AND THURSDAY...WITH HIGHS RANGING FROM 100 TO 108 DEGREES OVER THE
DESERT DISTRICTS EACH DAY. DAYTIME HUMIDITY LEVELS WILL CONTINUE TO
DROP INTO THE TEENS...FOLLOWED BY GOOD OVERNIGHT RECOVERY. WINDS
WILL BE LIGHT...EXCEPT FOR LOCAL GUSTS ALONG PORTIONS OF THE LOWER
COLORADO RIVER VALLEY.

...THUNDERSTORMS IMPLY GUSTY WINDS...

NOTE...ADDITIONAL FIRE WEATHER FORECAST INFORMATION CAN BE FOUND
IN THE AREA FORECAST DISCUSSION. SEE PRODUCT PHXAFDPSR.

AZZ132-301015-
WEST CENTRAL DESERTS/NORTHWEST MARICOPA COUNTY/GREATER PHOENIX
AREA/SOUTHWEST DESERTS/SOUTHWEST MARICOPA COUNTY/
NORTHWEST AND NORTH-CENTRAL PINAL COUNTY-
PHOENIX BLM/YUM BLM/CAZ-CRZ-
309 PM MST TUE SEP 29 2015

.TONIGHT...
* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....74-84.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....34-46 PCT.
* 24 HR TREND.....8 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 10 MPH IN THE
EVENING...BECOMING NORTHWEST AFTER MIDNIGHT.
* WINDS...10000 FT MSL.....SOUTHEAST 10 TO 15 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

.WEDNESDAY...
* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....100-106.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-17 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..EAST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTH 10 TO 15 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR PHOENIX.....10200 FT AGL.
* TRANSPORT WIND FOR PHOENIX.....SOUTH 7 KNOTS.
* DISPERSION FOR PHOENIX.....VERY GOOD.

.WEDNESDAY NIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....73-83.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....33-42 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 15 TO 25 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

.THURSDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....99-106.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-17 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR PHOENIX.....10800 FT AGL.
* TRANSPORT WIND FOR PHOENIX.....SOUTHWEST 12 KNOTS.
* DISPERSION FOR PHOENIX.....EXCELLENT.

.EXTENDED...

.FRIDAY...CLEAR. LOWS 70-80. HIGHS 94-100. WEST WINDS 10 TO
20 MPH.

.SATURDAY...MOSTLY CLEAR. LOWS 69-79. HIGHS 93-98. WEST WINDS
5 TO 15 MPH.

.SUNDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 69-79. HIGHS 90-96. SOUTH WINDS 10 TO 20 MPH.

.MONDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 68-78. HIGHS 88-93.

.TUESDAY...MOSTLY CLEAR. LOWS 68-78. HIGHS 89-96.

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AZZ133-301015-

SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-
SOUTHERN TONTO NF/WEST SAN CARLOS BIA/SOUTH PORTION FT APACHE BIA/
CAZ-
309 PM MST TUE SEP 29 2015

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....59-75.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....38-60 PCT.
* 24 HR TREND.....10 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 10 MPH IN THE
EVENING...BECOMING SOUTHEAST AFTER MIDNIGHT.
* WINDS...10000 FT MSL.....SOUTHEAST 10 TO 20 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

.WEDNESDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....87-101.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....14-22 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHEAST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTH 10 TO 20 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.WEDNESDAY NIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....59-75.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....36-56 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..EAST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 15 TO 25 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

.THURSDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....88-101.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....13-20 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHEAST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTHWEST 5 TO 15 MPH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTHWEST 15 TO 25 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.EXTENDED...

.FRIDAY...CLEAR. LOWS 56-73. HIGHS 82-96. SOUTHWEST WINDS 10 TO
20 MPH.

.SATURDAY...CLEAR. LOWS 56-70. HIGHS 80-93. SOUTHWEST WINDS 5 TO 15 MPH.

.SUNDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 56-70. HIGHS 78-91. SOUTH WINDS 5 TO 15 MPH.

.MONDAY...PARTLY CLOUDY WITH SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 54-70. HIGHS 76-89.

.TUESDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 54-69. HIGHS 78-90.

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AZZ131-CAZ231-301015-

YUMA/MARTINEZ LAKE AND VICINITY/LOWER COLORADO RIVER VALLEY AZ-
LOWER COLORADO RIVER VALLEY CA-

309 PM MST TUE SEP 29 2015 /309 PM PDT TUE SEP 29 2015/

.TONIGHT...

* SKY/WEATHER.....CLEAR.

* MIN TEMPERATURE.....74-79.

* 24 HR TREND.....LITTLE CHANGE.

* MAX HUMIDITY.....32-47 PCT.

* 24 HR TREND.....11 PCT DRIER.

* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 10 MPH IN THE
EVENING...BECOMING WEST AFTER MIDNIGHT.

* WINDS...10000 FT MSL.....LIGHT AND VARIABLE.

* CHANCE OF PRECIP.....0 PERCENT.

* CWR (>= 0.10 IN).....0 PERCENT.

* LAL.....1.

.WEDNESDAY...

* SKY/WEATHER.....SUNNY.

* MAX TEMPERATURE.....103-107.

* 24 HR TREND.....LITTLE CHANGE.

* MIN HUMIDITY.....11-16 PCT.

* 24 HR TREND.....LITTLE RH CHANGE.

* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.

* WINDS...10000 FT MSL.....SOUTH 10 TO 15 MPH.

* CHANCE OF PRECIP.....0 PERCENT.

* CWR (>= 0.10 IN).....0 PERCENT.

* LAL.....1.

* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

* MIXING HEIGHT FOR YUMA.....7900 FT AGL.

* TRANSPORT WIND FOR YUMA.....SOUTH 4 KNOTS.

* DISPERSION FOR YUMA.....FAIR.

.WEDNESDAY NIGHT...

* SKY/WEATHER.....CLEAR.

* MIN TEMPERATURE.....75-80.

* 24 HR TREND.....LITTLE CHANGE.

* MAX HUMIDITY.....32-47 PCT.

* 24 HR TREND.....LITTLE CHANGE.

* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.

* WINDS...10000 FT MSL.....LIGHT AND VARIABLE IN THE

EVENING...BECOMING SOUTH 10 TO 20 MPH AFTER MIDNIGHT.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.THURSDAY...
* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....102-106.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....11-16 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR YUMA.....7500 FT AGL.
* TRANSPORT WIND FOR YUMA.....SOUTH 10 KNOTS.
* DISPERSION FOR YUMA.....VERY GOOD.

.EXTENDED...
.FRIDAY...CLEAR. LOWS 71-78. HIGHS 96-100. NORTHWEST WINDS 10 TO
20 MPH. MINIMUM RELATIVE HUMIDITY MAY BE LOWER THAN 15 PERCENT.
.SATURDAY...MOSTLY CLEAR. LOWS 70-76. HIGHS 96-100. NORTHWEST
WINDS 5 TO 15 MPH. MINIMUM RELATIVE HUMIDITY MAY BE LOWER THAN
15 PERCENT.
.SUNDAY...MOSTLY CLEAR. LOWS 69-75. HIGHS 95-99. SOUTHEAST WINDS
10 TO 20 MPH.
.MONDAY...MOSTLY CLEAR. LOWS 69-74. HIGHS 91-95.
.TUESDAY...MOSTLY CLEAR. LOWS 69-76. HIGHS 94-98.

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CAZ230-301015-
JOSHUA TREE NATIONAL PARK-
309 PM PDT TUE SEP 29 2015

.TONIGHT...
* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....65-75.
* 24 HR TREND.....4 DEGREES WARMER.
* MAX HUMIDITY.....27-33 PCT.
* 24 HR TREND.....6 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..NORTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHEAST 5 TO 15 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.WEDNESDAY...
* SKY/WEATHER.....SUNNY.

* MAX TEMPERATURE.....89-101.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....11-16 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 10 TO 15 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.WEDNESDAY NIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....64-75.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....28-33 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 10 TO 20 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.THURSDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....86-101.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....11-18 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 10 TO 20 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.EXTENDED...

.FRIDAY...CLEAR. LOWS 61-73. HIGHS 83-95. NORTHWEST WINDS 10 TO
20 MPH.

.SATURDAY...MOSTLY CLEAR. LOWS 59-73. HIGHS 82-96. NORTHWEST
WINDS 5 TO 15 MPH.

.SUNDAY...MOSTLY CLEAR. LOWS 58-73. HIGHS 79-93. SOUTHWEST WINDS
5 TO 15 MPH.

.MONDAY...MOSTLY CLEAR. LOWS 58-70. HIGHS 76-89.

.TUESDAY...MOSTLY CLEAR. LOWS 58-72. HIGHS 80-94.

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CAZ232-301015-

IMPERIAL COUNTY AND EASTERN RIVERSIDE COUNTY-

309 PM PDT TUE SEP 29 2015

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....75-79.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....28-43 PCT.
* 24 HR TREND.....3 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 10 MPH IN THE
EVENING...BECOMING NORTHWEST AFTER MIDNIGHT.
* WINDS...10000 FT MSL.....LIGHT AND VARIABLE.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.WEDNESDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....99-106.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-17 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTH 10 TO 15 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.WEDNESDAY NIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....75-79.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....28-45 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....LIGHT AND VARIABLE IN THE
EVENING...BECOMING SOUTH 5 TO 15 MPH AFTER MIDNIGHT.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.THURSDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....98-105.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....11-18 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE

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FXUS65 KPSR 300329
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
830 PM MST TUE SEP 29 2015

.SYNOPSIS... VERY STRONG HIGH PRESSURE OVER THE DESERT SOUTHWEST WILL SUPPORT WELL ABOVE NORMAL TEMPERATURES THROUGH MUCH OF THE WEEK...WITH NEAR RECORD HIGH TEMPERATURES WEDNESDAY AND THURSDAY. A COOLING TREND WILL BEGIN FRIDAY AS LOW PRESSURE DIVES INTO THE INTERMOUNTAIN WEST...AND READINGS FINALLY SETTLE CLOSER TO AVERAGE. VERY SLIGHT CHANCES FOR RAIN WILL ENTER THE SOUTHWEST EARLY NEXT WEEK ESPECIALLY ACROSS SOUTH CENTRAL ARIZONA.

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.DISCUSSION...

A STRONG HIGH PRESSURE SYSTEM WILL CONTINUE TO COVER THE REGION FOR THE NEXT COUPLE OF DAYS...PRODUCING NEARLY CLOUDLESS SKIES AND RECORD OR NEAR RECORD HEAT. CURRENT FORECAST LOOK GOOD. NO UPDATES NECESSARY.

.PREVIOUS DISCUSSION...320 PM MST...

STRONG HIGH PRESSURE ALOFT CONTINUED ACROSS THE DESERT SOUTHWEST TODAY WITH H5 HEIGHTS RUNNING NEAR 591 ACROSS SOUTHERN AZ...UP AROUND 10M FROM YESTERDAY. EARLY AFTERNOON SATELLITE IMAGERY SHOWED SUNNY SKIES ACROSS THE REGION...AND UNDER FULL SUNSHINE TEMPS OVER THE DESERTS WERE CLOSE TO OR SLIGHTLY ABOVE WHAT THEY WERE 24 HOURS AGO. EXPECT PHOENIX TO TOP OUT NEAR 105 TODAY.

PROGS CONTINUE TO AGREE THAT THE ANOMALOUSLY STRONG UPPER RIDGE WILL PERSIST THROUGH THE MIDDLE OF THE WORK WEEK...PEAKING IN STRENGTH ON WEDNESDAY. 850MB TEMPS ACTUALLY CLIMB OVER 1C TOMORROW SO WE EXPECT THIS WARMING TO TRANSLATE TO THE SURFACE...MAKING WEDNESDAY THE WARMEST DAY OF THE WEEK UNDER CONTINUED FULL SUNSHINE. FORECAST HIGH FOR PHOENIX CLIMBS 2 DEGREES OR SO TO 107 FOR WEDNESDAY WHICH WOULD TIE THE RECORD FOR THE DATE. ON THURSDAY AN OPEN WAVE TROF DEVELOPING ALONG THE PAC NW/NRN CA COAST DIVES INTO THE GREAT BASIN AND BEGINS TO FLATTEN THE RIDGE OVER THE DESERT SOUTHWEST. MOST OF THE COOLING WILL BE ALOFT AND THE BOUNDARY LAYER TEMPS WILL CHANGE VERY LITTLE. THE ATMOSPHERE WILL REMAIN DRY AND VERY WARM AND HIGH TEMPS CHANGE VERY LITTLE AS COMPARED TO WEDNESDAY. PHOENIX WILL AGAIN APPROACH RECORD HIGHS AS THE FORECAST OF 106 COMES UP JUST 1 DEGREE SHY OF THE RECORD FOR OCTOBER 1. THERE WILL BE SOME INCREASE IN AFTERNOON BREEZINESS...ESPECIALLY OVER THE WESTERN DESERTS...ON THURSDAY AS PRESSURE GRADIENTS TIGHTEN AHEAD OF THE APPROACHING UPPER TROF.

ON FRIDAY...MODELS AGREE THAT THE OPEN WAVE TROF WILL PASS PROGRESSIVELY BY TO OUR NORTH...LOWERING H5 HEIGHTS OVER THE CENTRAL DESERTS TO AROUND 585DM...AND GIVEN THE AMPLE MIXING EXPECTED UNDER SUNNY SKIES...MUCH OF THE COOLING WILL WORK ITS WAY TO THE SURFACE. HIGH TEMPS WILL FALL OFF AROUND 5 TO 6 DEGREES WITH PHOENIX LOWERING TO NEAR 100. STILL...THE NORMAL HIGH ON FRIDAY IS 94 DEGREES SO HIGHS WILL STAY WELL ABOVE SEASONAL NORMALS. ONCE AGAIN IT WILL BE BREEZY DURING THE AFTERNOON HOURS DUE TO THE CLOSE PROXIMITY OF THE PASSING LOW PRESSURE SYSTEM.

SUBSTANTIAL UNCERTAINTY EXISTS IN FORECASTING EARLY NEXT WEEK AS OPERATIONAL AND ENSEMBLE MEMBERS LACK CONSISTENCY AND AGREEMENT WITH RESPECT TO NUMEROUS SALIENT FORCING FEATURES. FOREMOST...EVOLUTION OF A PATTERN TRANSITION/REALIGNMENT HAS BEEN EXTREMELY ERRATICALLY FORECAST BY THE NAEFS AND ECMWF ENSEMBLE SUITES...AND SEVERAL MEMBERS RAPIDLY BECOME OUT OF PHASE AS EARLY AS SUNDAY. THE KEY ATMOSPHERIC PLAYERS ARE A RETROGRADING AND AMPLIFYING RIDGE OVER THE EAST PACIFIC (GENERALLY WELL FORECAST BY ALL ENSEMBLE MEMBERS) AND SHORTWAVE ENERGY/JET STREAK BREAKING OVER SAID RIDGE DIGGING TOWARDS THE SWRN CONUS. WITH A WEAKNESS IN THE HEIGHT FIELDS ALOFT LEFT BY THE SYSTEM LATE THIS WEEK...FEEL SUBSEQUENT TROUGHING FILLING THIS VOID IS MORE LIKELY THAN RIDGING SHOWN BY SEVERAL GFS ENSEMBLE MEMBERS. THE MAJORITY OF NAEFS ENSEMBLE MEMBERS SUPPORT A SOLUTION CLOSER TO A MULTI-MODEL (ECMWF/GFS/GEM) BLEND OF SHORTWAVE ENERGY PROPAGATING THROUGH THE FOUR CORNERS (I.E. NOT AS DEEP AS THE 00Z OPERATIONAL ECMWF NOR AS SLOW AND FAR SOUTH AS THE 00Z OPERATIONAL GFS).

ADDING TO COMPLEXITY OF THIS FORECAST IS THE POTENTIAL INFUSION (OR COMPLETE LACK THEREOF) OF MOISTURE ASSOCIATED WITH THE REMNANTS OF TS MARTY. HURRICANE SPECIFIC MODELS AND NHC OFFICIAL FORECASTS DEPICT MARTY SPINNING AND DETERIORATING ALONG THE MEXICAN COAST THROUGH THE END OF THE WEEK. IF THE AFOREMENTIONED SHORTWAVE/JET STREAK BECOMES MORE PROGRESSIVE THROUGH THE FOUR CORNERS...MIDLEVEL WINDS WILL QUICKLY BECOME MORE VEERED DEFLECTING MOISTURE TOWARDS SERN ARIZONA/NEW MEXICO. HOWEVER...IF A SLOWER AND MORE RETROGRESSIVE SOLUTION COMES TO FRUITION...BACKED MIDLEVEL WINDS WOULD AID IN BETTER POLEWARD MOISTURE TRANSPORT THROUGH THE BULK OF ARIZONA. WITH SUCH LARGE SPREAD AMONG ENSEMBLE MEMBERS AND HUGE UNCERTAINTIES HISTORICALLY IN MOISTURE AVAILABILITY FROM TROPICAL SYSTEMS...HAVE KEPT POPS VERY MODEST UNTIL SOME SEMBLANCE OF CONFIDENCE CAN BE ATTAINED.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...AND SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

A STRONG HIGH PRESSURE SYSTEM WILL CONTINUE OVER THE REGION THROUGH WEDNESDAY EVENING...PROVIDING NEARLY CLOUDLESS SKIES AND LIGHT AND VARIABLE WIND UNDER 8 KNOTS.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.CLIMATE...

RECORD HIGHS FOR LATER THIS WEEK...

| DATE | PHOENIX | YUMA |
|---------|-------------|-------------|
| ---- | ----- | ---- |
| SEPT 30 | 107 IN 2010 | 109 IN 2012 |
| OCT 1 | 107 IN 1980 | 110 IN 1980 |

&&

.FIRE WEATHER...

FRIDAY THROUGH TUESDAY...A COOLING TREND TAKES PLACE FRIDAY THROUGH MONDAY AS A COUPLE OF WEATHER SYSTEMS AFFECT THE WESTERN STATES. THE FIRST ONE WILL CAUSE AN UPTICK IN WIND SPEEDS LATE THURSDAY WITH SOME LINGERING LOCAL GUSTY WINDS FRIDAY. THE NEXT SYSTEM WILL LEAD TO LOCALLY BREEZY CONDITIONS SUNDAY WITH LIGHT WINDS MONDAY. HUMIDITIES WILL BEGIN TO TREND UPWARD...ESPECIALLY SUNDAY AND MONDAY WHEN THERE WILL BE A SLIGHT CHANCE SHOWERS AND THUNDERSTORMS MAINLY EAST OF THE LOWER COLORADO RIVER VALLEY.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...VASQUEZ/CB/MO

AVIATION...VASQUEZ

CLIMATE...MO

FIRE WEATHER...AJ/MEYERS

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545
FXUS66 KSGX 300428
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
928 PM PDT TUE SEP 29 2015

.SYNOPSIS... FAIR AND WARM WEATHER WILL CONTINUE THROUGH WEDNESDAY...THEN A PASSING LOW PRESSURE TROUGH WILL BRING GUSTY WESTERLY WINDS AND COOLING THURSDAY. THE MARINE LAYER WILL BE DEEPER BY FRIDAY MORNING... WITH MORE SIGNIFICANT DEEPENING LIKELY BY SUNDAY MORNING AS A COLDER LOW PRESSURE CENTER DROPS SOUTH ALONG THE COAST. THE MOIST LAYER MAY BE DEEP ENOUGH FOR A FEW LIGHT SHOWERS ALONG AND WEST OF THE MOUNTAINS SUNDAY INTO MONDAY. OTHERWISE BREEZY AND MUCH COOLER SUNDAY AND MONDAY.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

SKIES WERE CLEAR ACROSS SOCAL THIS EVENING. THE 00Z MIRAMAR SOUNDING HAD A VERY WEAK INVERSION BASED NEAR 1350 FT MSL. THIS WAS ABOUT 300 FT LOWER THAN YESTERDAY. THE SOUNDING SHOWED N-NW FLOW HAD DEVELOPED BELOW 10K FT AND THIS SEEMS TO HAVE DRIED THE MID-LEVELS CONSIDERABLY. EVEN SFC DEWPOINTS WERE A FEW DEGREES LOWER. SURFACE PRESSURE GRADIENTS WERE HOLDING AROUND 5 MBS ONSHORE TO THE LOWER DESERTS AND REMAINED WEAK OFFSHORE FROM NV. OTHER THAN SOME ISOLATED SPOTS IN THE MTS AND DESERT PASSES...WINDS WERE LIGHT.

BASED ON THE LATEST SATELLITE IMAGERY...ANY MARINE CLOUD/FOG DEVELOPMENT OVERNIGHT WILL LIKELY BE PATCHY. LITTLE CHANGE ON WEDNESDAY AS HIGH PRESSURE ALOFT HOLDS ONE MORE DAY OVER THE SW.

WEAK LOW PRESSURE OFF THE NOCAL COAST WILL BE KICKED EASTWARD ON THU AS A STRONG WAVE DIVES SE ACROSS THE NORTH PACIFIC AND CUTS OFF ALONG 150W. THE SHORTWAVE WILL TRACK JUST TO THE NORTH OF THE REGION AND BRING SOCAL STRONGER ONSHORE FLOW AND COOLING. SOME TEMPERATURE RECOVERY IS LIKELY ON FRI INTO SAT WITH SFC WINDS POSSIBLY TURNING OFFSHORE BRIEFLY SAT MORNING.

THE VARIOUS 12Z GLOBAL DETERMINISTIC RUNS HAVE FINALLY SETTLED ON A COMMON SOLUTION FOR THE WEEKEND. DETAILS AND TIMING ARE NOT EXACT... BUT ALL AGREE IT WILL BE COOLER AS LOW PRESSURE DIGS SOUTH OVER CA IN RESPONSE TO SHARP UPPER-LEVEL RIDGING OFF THE COAST. THE ECMWF MODEL HAS BEEN THE STRONGEST AND MOST PERSISTENT WITH THIS FEATURE AND ACTUALLY SQUEEZES A LITTLE RAIN OUT AS IT PASSES SUN/SUN NIGHT. LOW POPS ARE IN THE FORECAST TO COVER THIS.

THE LOW WEAKENS AND MOVES EAST EARLY NEXT WEEK WITH GRADUAL RECOVERY

OF HEIGHTS/THICKNESS AS A RIDGE SLOWLY REBUILDS.

&&

.AVIATION...

300330Z...COASTAL AREAS...PATCHES OF LOW CLOUDS AND FOG DEVELOPING
AFT 09Z...BUT TIMING IS UNCERTAIN AND CONFIDENCE IS LOW THAT COASTAL
TAF SITES WILL BE IMPACTED. FOR ANY LOW CLOUDS THAT DO FORM...EXPECT
BASES AROUND 700 FT MSL AND TOPS AROUND 1000 FT MSL. FOG COULD
LOCALLY REDUCE VIS TO 1SM OR LESS AT TIMES. LOW CLOUDS AND FOG WILL
CLEAR BETWEEN 14-16Z. AFT 16Z...MOSTLY CLEAR WITH UNRESTRICTED VIS.

VALLEYS/MOUNTAINS/DESERTS...FEW-SCT CLOUDS AOA 20000 FT WITH
UNRESTRICTED VIS THROUGH WEDNESDAY.

&&

.MARINE...

830 PM...NORTHWEST WINDS GUSTING TO 20 KT OVER THE OUTER WATERS
WEDNESDAY AFTERNOON AND EVENING.

THURSDAY...SLIGHTLY STRONGER WINDS OVER THE OUTER WATERS WITH GUSTS
OF 20 TO 25 KT IN THE AFTERNOON AND EVENING.

OTHERWISE...LIGHTER WINDS WITH NO HAZARDOUS MARINE WEATHER EXPECTED.

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.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE
ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

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PUBLIC...JAD

AVIATION/MARINE...PG

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326
FXUS65 KPSR 300927
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
225 AM MST WED SEP 30 2015

.SYNOPSIS...

VERY STRONG HIGH PRESSURE OVER THE DESERT SOUTHWEST WILL SUPPORT WELL ABOVE NORMAL TEMPERATURES THROUGH MUCH OF THE WEEK...WITH NEAR RECORD HIGH TEMPERATURES TODAY AND THURSDAY. A COOLING TREND WILL BEGIN FRIDAY AS LOW PRESSURE DIVES INTO THE INTERMOUNTAIN WEST...AND READINGS FINALLY SETTLE CLOSER TO AVERAGE. VERY SLIGHT CHANCES FOR RAIN WILL ENTER THE SOUTHWEST EARLY NEXT WEEK ESPECIALLY ACROSS SOUTH CENTRAL ARIZONA.

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.DISCUSSION...

VERY LITTLE CHANGE IN THE REGIONAL FLOW PATTERN SINCE THE BEGINNING OF THE WEEK WITH QUASI-STATIONARY 592DM H5 RIDGING PARKED OVER NW MEXICO...AND A POSITIVELY TILTED TROUGHING SPINNING ACROSS THE EAST PACIFIC BASIN. THIS ALIGNMENT HAS DEFLECTED STORMS SYSTEMS AWAY FROM THE SWRN CONUS WHILE KEEPING THE AREA UNUSUALLY WARM UNDER SEASONALLY HIGH THICKNESSES. HOWEVER...THIS PATTERN WILL ATTEMPT TO RE-ALIGN THROUGH THE LATTER PARTS OF THE WEEK AS TWO PROGRESSIVE SHORTWAVES IN THE CNTRL PACIFIC/GULF OF ALASKA BREAK INTO THE DOWNSTREAM BLOCKED FLOW PATTERN OVER THE BULK OF THE CONUS. THIS WILL KICK ENERGY INTO THE INTERMOUNTAIN WEST...WITH SEVERAL SHORTWAVES APPROACHING THE FORECAST AREA.

IN THE MEANTIME...00Z REGIONAL SOUNDING DATA SAMPLED A VERY WARM ATMOSPHERIC PROFILE WITH H7 TEMPERATURES +12C TO +15C...AND H8 TEMPERATURES +25C TO +28C. HISTORICALLY...THESE READINGS IN THE H8-H5 LAYER ARE PEGGED ABOVE THE 90TH PERCENTILE AND WITHIN 2C OF ALL-TIME RECORDS FOR THE DATE. NOT SURPRISINGLY WITH FULL INSOLATION AND DEEP MIXING...THIS ENVIRONMENT WILL BE SUPPORTING SFC TEMPERATURES NEAR RECORD LEVELS. THE ONLY POTENTIAL DETRIMENT TO REALIZING RECORDS TODAY MAY BE A WEAKER PRESSURE GRADIENT LIMITING A DEEPER MIXING DEPTH (AND SEASONALLY MORE DIFFICULT TO ACHIEVE NEAR SFC SUPER ADIABATIC LAPSE RATES).

AN IMPRESSIVE LOOKING SHORTWAVE ON WV SATELLITE IMAGERY IN THE CNTRL PACIFIC (42N 152W) WILL ACT AS A KICKER TO THE AFOREMENTIONED POSITIVELY TILTED TROUGH OFF THE CALIFORNIA COAST ON THURSDAY. ENERGY WILL OPEN INTO A NEUTRALLY TILTED PROGRESSIVE WAVE PROPAGATING ACROSS THE SIERRA NEVADA INTO THE GREAT BASIN THROUGH FRIDAY. THIS WILL ALLOW HEIGHTS AND THICKNESS VALUES TO TUMBLE OVER THE SWRN CONUS ALBEIT AMID A RELATIVELY ARID ENVIRONMENT (I.E. NO CHANCE OF RAINFALL). WINDS WILL INCREASE SOMEWHAT DURING THE AFTERNOON HOURS...THOUGH NOT UNUSUALLY STRONG BUT SUFFICIENT TO

SUPPORT SOMEWHAT DEEPER MIXING AND ESTABLISHING HIGH TEMPERATURES SOMEWHAT WARMER THAN WOULD BE EXPECTED WITH THE SHARP REDUCTION IN HEIGHTS AND THICKNESSES. REGARDLESS...BEST PERFORMING MODEL GUIDANCE INSISTS TEMPERATURES FRIDAY AND SATURDAY WILL FALL SHORT OF THE 100F THRESHOLD FOR MUCH OF THE FORECAST AREA.

MODEL SPREAD FOR THE FIRST HALF OF NEXT WEEK REMAINS QUITE NOTABLE...AND TO SAY THE FORECAST CARRIES CONSIDERABLE UNCERTAINTY WOULD BE AN UNDERSTATEMENT. THE INFLUENCE OF NORTH ATLANTIC BLOCKING FINALLY TRANSLATES UPSTREAM NEXT WEEK WITH MUCH OF THE WESTERN HEMISPHERE FLOW PATTERN BECOMING AMPLIFIED AND BLOCKED. THE RIDGE CURRENTLY OVER THE SWRN CONUS WILL RETROGRADE AND AMPLIFY THROUGH THE EAST PACIFIC...WHILE COMPACT SHORTWAVE ENERGY CURRENTLY NEAR 59N 148W DIVES EQUATORWARD TO FILL THE VOID LEFT BY THE THURSDAY/FRIDAY GREAT BASIN TROUGH...FORMING A TEMPORARY OMEGA BLOCK BETWEEN THE CNTRL PACIFIC AND WEST COAST OF NORTH AMERICA.

CHARACTERISTICALLY...MODELS HAVE DIFFICULTLY RESOLVING PATTERN ADJUSTMENTS IN BLOCKED REGIMES AND THIS FORECAST IS THE PERFECT EXAMPLE WITH LIMITED RUN TO RUN CONTINUITY AND LARGE ENSEMBLE SPREAD. THE 00Z OPERATIONAL GFS HAS BROKE FROM THE LARGER MULTI-MODEL MEAN LAGGING SHORTWAVE ENERGY OVER THE PACIFIC NORTHWEST AS ENERGY UNDERCUTS THE EAST PACIFIC RIDGE AMPLIFICATION. ONLY A VERY FEW ENSEMBLE MEMBERS SUPPORT SUCH AN OUTCOME...AND THIS SOLUTION WAS LARGELY DISCOUNTED. MORE FORECAST WEIGHT WAS GIVEN TO A BROAD BLEND OF THE OPERATIONAL GEM/ECMWF AND NAEFS ENSEMBLE MEAN TAKING THE COLD CORE CLOSED LOW INTO NEVADA ON SUNDAY...THEN PROGRESSING THIS FEATURE THROUGH UTAH AND COLORADO DURING THE FIRST PART OF NEXT WEEK (ONLY SKIRTING THE FORECAST AREA WITH COLDER TEMPERATURES ALOFT AND FORCED SYNOPTIC ASCENT). THAT SAID...IT SHOULD BE STATED THAT ENSEMBLE SPREAD WITH RESPECT TO POSITIONING AND TIMING OF WAVE STRUCTURES REMAINS VERY LARGE...AND SUBSTANTIAL FUTURE SHIFTS OF THESE ASPECTS (AND THE ASSOCIATED WEATHER FORECAST) MAY BE EXPECTED.

ADDING TO COMPLEXITY OF THIS FORECAST IS THE POTENTIAL INFUSION (OR COMPLETE LACK THEREOF) OF MOISTURE ASSOCIATED WITH THE REMNANTS OF TD MARTY. GIVEN THE PREFERRED MODEL BLEND TAKING SHORTWAVE/JET STREAK ENERGY MORE PROGRESSIVELY INTO UTAH/COLORADO...LOW/MID LEVEL WINDS WOULD BECOME MORE VEERED TENDING TO DEFLECT MOISTURE TOWARDS SERN ARIZONA/NEW MEXICO. HOWEVER...IF A SLOWER AND SOMEWHAT MORE RETROGRESSIVE SOLUTION COMES TO FRUITION (I.E. OPERATIONAL GFS)...THEN BACKED WINDS COULD AID IN BETTER MOISTURE TRANSPORT THROUGH THE BULK OF CENTRAL ARIZONA. WITH SUCH LARGE SPREAD AMONG OPERATIONAL AND ENSEMBLE MEMBERS AND HUGE UNCERTAINTIES HISTORICALLY IN MOISTURE AVAILABILITY AND TRANSPORT FROM TROPICAL SYSTEMS...HAVE KEPT POPS VERY MODEST UNTIL ANY BETTER CONFIDENCE CAN BE ATTAINED.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...AND SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

A STRONG HIGH PRESSURE SYSTEM WILL CONTINUE OVER THE REGION THROUGH

WEDNESDAY EVENING...PROVIDING NEARLY CLOUDLESS SKIES AND LIGHT AND
VARIABLE WIND UNDER 8 KNOTS.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.CLIMATE...

RECORD HIGHS FOR TODAY AND THURSDAY...

| DATE | PHOENIX | YUMA |
|---------|-------------|-------------|
| ----- | ----- | ----- |
| SEPT 30 | 107 IN 2010 | 109 IN 2012 |
| OCT 1 | 107 IN 1980 | 110 IN 1980 |

&&

.FIRE WEATHER...

FRIDAY THROUGH TUESDAY...

A COOLING TREND TAKES PLACE FRIDAY THROUGH MONDAY AS A COUPLE OF
WEATHER SYSTEMS AFFECT THE WESTERN STATES. THE FIRST ONE WILL CAUSE
AN UPTICK IN WIND SPEEDS LATE THURSDAY WITH SOME LINGERING LOCAL
GUSTY WINDS FRIDAY. THE NEXT SYSTEM WILL LEAD TO LOCALLY BREEZY
CONDITIONS SUNDAY WITH LIGHT WINDS MONDAY. HUMIDITIES WILL BEGIN TO
TREND UPWARD...ESPECIALLY SUNDAY AND MONDAY WHEN THERE WILL BE A
SLIGHT CHANCE SHOWERS AND THUNDERSTORMS MAINLY EAST OF THE LOWER
COLORADO RIVER VALLEY.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING
PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...MO

AVIATION...VASQUEZ

CLIMATE...MO

FIRE WEATHER...AJ/MEYERS

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684
FXUS66 KSGX 300918
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
230 AM PDT WED SEP 30 2015

.SYNOPSIS... FAIR AND WARM WEATHER WILL CONTINUE TODAY. A PASSING LOW PRESSURE TROUGH WILL BRING COOLER WEATHER WITH LOCALLY GUSTY WESTERLY WINDS THURSDAY. THE MARINE LAYER WILL BE DEEPER BY FRIDAY MORNING... WITH MORE SIGNIFICANT DEEPENING LIKELY BY SUNDAY MORNING AS A COLDER LOW PRESSURE CENTER DROPS SOUTH ALONG THE COAST. THE MOIST LAYER MAY BE DEEP ENOUGH FOR A FEW LIGHT SHOWERS ALONG AND WEST OF THE MOUNTAINS SUNDAY INTO MONDAY. OTHERWISE BREEZY AND MUCH COOLER SUNDAY AND MONDAY.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

SKIES ARE MOSTLY CLEAR SKIES MORNING WITH A PATCH OF LOW CLOUDS LURKING OFF SAN DIEGO. THESE COASTAL CLOUDS OUGHT TO DEVELOP A LITTLE MORE BEFORE SUNRISE. TODAY WILL BE MOSTLY SUNNY WITH PATCHY COASTAL CLOUDS EARLY AND A FEW WISPY HIGH CLOUDS. A TROUGH OF LOW PRESSURE OFF THE NORTHERN CALIFORNIA COAST WILL MOVE THROUGH CALIFORNIA AND NEVADA THURSDAY. ALMOST AS IF THE ATMOSPHERE GOT THE MEMO THAT OCTOBER HAS ARRIVED...IT WILL BE NOTICEABLY COOLER THURSDAY AND FRIDAY WITH DAYTIME HIGHS IN THE 70S AND 80S IN THE COASTAL BASIN AND IN THE MID 90S IN THE LOWER DESERTS. THIS WAVE DOES NOT APPEAR TO DO MUCH TO DEEPEN OUR MARINE LAYER AND EXTEND COASTAL CLOUDS TONIGHT INTO THURSDAY...BUT IT LOOKS TO DEVELOP A COASTAL EDDY THAT CONTINUES INTO FRIDAY. THE MARINE LAYER WILL DEEPEN A LOT BY FRIDAY...BUT THE ACTUAL CLOUD COVER DOES NOT LOOK TOO MURKY OR UNIFORM. SATURDAY BRINGS SLIGHTLY HIGHER PRESSURE ALOFT AND A TOUCH OF OFFSHORE FLOW TO HELP TEMPS REBOUND A LITTLE. MODEL GUIDANCE FEATURES A WAVE IN ALASKA THAT DEVELOPS INTO A CUTOFF LOW AS IT HEADS SOUTH INTO WASHINGTON ON SATURDAY. MODELS THEN DIVERGE ON SUNDAY...WHERE THE LOW GOES AND WHEN. THE EURO HAS BEEN FAIRLY CONSISTENT BRINGING IT ALL THE WAY DOWN TO BRING SOUTHERN CALIFORNIA COOL...BLUSTERY WEATHER AND SHOWERS SUNDAY THROUGH MONDAY MORNING. THE GFS MODEL STALLS THE LOW OVER NORTHERN CALIFORNIA THEN SLOWLY MOVES IT EASTWARD INTO NEVADA FOR REALLY NO CHANCE OF RAIN FOR OUR REGION...BUT COOL AND BREEZY WEATHER THROUGH TUESDAY. A BLEND WITH GREATER WEIGHT GIVEN TO THE MORE CONSISTENT EURO MODEL IS THE CURRENT THINKING BEHIND OUR FORECAST. IT INCLUDES SMALL CHANCES OF SHOWERS SUNDAY INTO MONDAY...ALONG WITH COOL AND BREEZY WEATHER. FORECAST TEMPS IN THE 70S AND LOW 80S IN THE COASTAL BASIN AND HIGH DESERT THOSE DAYS...WITH 60S IN THE MOUNTAINS AND LOW 90S IN THE LOWER DESERT. DARE I SAY IT WILL FEEL LIKE FALL? FAIR AND WARMER

WEATHER WILL FOLLOW TUESDAY IF THE EURO IS RIGHT.

&&

.AVIATION...

300757Z...COAST/VALLEYS...A FEW PATCHES OF BKN-OVC CLOUDS MAY DEVELOP WITHIN 5-15 SM OF THE COAST THROUGH 1500 UTC...WITH BASES AROUND 900-1300 FT MSL AND TOPS AROUND 1000-1400 FT MSL. LOCAL VIS AOB 1/2 SM DUE TO FOG IS POSSIBLE...MAINLY FOR HIGHER COASTAL TERRAIN/MESAS. HOWEVER...CONFIDENCE IN LOW CLOUD OCCURRENCE FOR KSAN AND KCRQ IS LOW...WITH VERY LOW CONFIDENCE FOR KSNA. ANY LOW CLOUDS SHOULD CLEAR OUT DURING THE 1500-1700 UTC TIME-FRAME. 1700-01/0300 UTC...UNRESTRICTED VIS AND FEW-SCT CLOUDS AOA 20000 FT MSL. 01/0400-1500 UTC...BKN-OVC CLOUDS LIKELY TO DEVELOP WITHIN 10-20 SM OF THE COAST...WITH BASES AND TOPS ABOUT 500 FT HIGHER THAN THIS MORNING.

MOUNTAINS/DESERTS...FEW-SCT CLOUDS AOA 20000 FT AND UNRESTRICTED VIS THROUGH THURSDAY MORNING.

&&

.MARINE...

1257 AM...NORTHWESTERLY WIND GUSTS OF 20 KT WILL BE POSSIBLE IN THE OUTER WATERS DURING THE AFTERNOON AND EVENING HOURS EACH DAY THROUGH THURSDAY. WINDS WILL LIKELY BE STRONGEST ON THURSDAY WHEN A TROUGH MOVES THROUGH CENTRAL CALIFORNIA...RESULTING IN POSSIBLE 25 KT GUSTS OVER THE OUTER WATERS. WEAKER WINDS THEN EXPECTED FRIDAY THROUGH SUNDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

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PUBLIC...MM

AVIATION/MARINE...HARRISON

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355
FNUS55 KPSR 301148
FWFPSR

FIRE WEATHER PLANNING FORECAST FOR SOUTHWEST AND SOUTH-CENTRAL
ARIZONA AND SOUTHEAST CALIFORNIA
NATIONAL WEATHER SERVICE PHOENIX AZ
448 AM MST WED SEP 30 2015

.DISCUSSION...
NEAR RECORD HIGH TEMPERATURES CONTINUE TODAY AND TOMORROW. LIGHT
WINDS CAN BE EXPECTED TODAY WITH SOUTH AND SOUTHEAST DIRECTIONS
FAVORED DURING THE AFTERNOON. MORE NOTICEABLE WINDS DEVELOP THURSDAY
AS A WEATHER SYSTEM BRUSHES THE FORECAST AREA...MAINLY PASSING
THROUGH THE GREAT BASIN. BREEZY TO WINDY CONDITIONS CAN BE EXPECTED
OVER PORTIONS OF SOUTHEAST CALIFORNIA THURSDAY AFTERNOON AND EVENING.
HUMIDITIES TREND DOWN OVER PORTIONS OF SOUTH-CENTRAL ARIZONA...LITTLE
CHANGE ELSEWHERE.

...THUNDERSTORMS IMPLY GUSTY WINDS...

NOTE...ADDITIONAL FIRE WEATHER FORECAST INFORMATION CAN BE FOUND
IN THE AREA FORECAST DISCUSSION. SEE PRODUCT PHXAFDPSR.

AZZ132-010000-
WEST CENTRAL DESERTS/NORTHWEST MARICOPA COUNTY/GREATER PHOENIX
AREA/SOUTHWEST DESERTS/SOUTHWEST MARICOPA COUNTY/
NORTHWEST AND NORTH-CENTRAL PINAL COUNTY-
PHOENIX BLM/YUM BLM/CAZ-CRZ-
448 AM MST WED SEP 30 2015

.TODAY...
* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....101-106.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....11-16 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..EAST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTH 10 TO 20 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR PHOENIX.....10200 FT AGL.
* TRANSPORT WIND FOR PHOENIX.....SOUTH 7 KNOTS.
* DISPERSION FOR PHOENIX.....VERY GOOD.

.TONIGHT...
* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....72-82.
* 24 HR TREND.....LITTLE CHANGE.

* MAX HUMIDITY.....34-43 PCT.
* 24 HR TREND.....3 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 10 TO 20 MPH IN THE
EVENING...BECOMING 20 TO 30 MPH AFTER MIDNIGHT.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

.THURSDAY...
* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....99-105.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....11-16 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 25 TO 35 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR PHOENIX.....11200 FT AGL.
* TRANSPORT WIND FOR PHOENIX.....SOUTHWEST 16 KNOTS.
* DISPERSION FOR PHOENIX.....EXCELLENT.

.EXTENDED...
.FRIDAY...CLEAR. LOWS 66-76. HIGHS 93-98. WEST WINDS 5 TO 15 MPH.
MINIMUM RELATIVE HUMIDITY MAY BE LOWER THAN 15 PERCENT.
.SATURDAY...CLEAR. LOWS 66-76. HIGHS 92-98. SOUTHWEST WINDS 5 TO
10 MPH.
.SUNDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 67-77. HIGHS 91-97. SOUTH WINDS 10 TO 20 MPH.
.MONDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 68-78. HIGHS 89-94.
.TUESDAY...MOSTLY CLEAR. LOWS 68-78. HIGHS 89-94.

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AZZ133-010000-
SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-
SOUTHERN TONTO NF/WEST SAN CARLOS BIA/SOUTH PORTION FT APACHE BIA/
CAZ-
448 AM MST WED SEP 30 2015

.TODAY...
* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....89-102.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....13-20 PCT.
* 24 HR TREND.....3 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..EAST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTH 10 TO 20 MPH.
* CHANCE OF PRECIP.....0 PERCENT.

* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....59-74.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....37-57 PCT.
* 24 HR TREND.....8 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..EAST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 15 TO 25 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

.THURSDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....88-101.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-17 PCT.
* 24 HR TREND.....3 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHEAST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTHWEST 5 TO 15 MPH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.EXTENDED...

.FRIDAY...CLEAR. LOWS 54-70. HIGHS 81-94. SOUTHWEST WINDS 5 TO
15 MPH.

.SATURDAY...CLEAR. LOWS 53-67. HIGHS 77-91. SOUTH WINDS 5 TO
15 MPH.

.SUNDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 53-70. HIGHS 78-92. SOUTH WINDS 5 TO 15 MPH.

.MONDAY...PARTLY CLOUDY WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 55-70. HIGHS 76-89.

.TUESDAY...PARTLY CLOUDY WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 54-69. HIGHS 77-89.

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AZZ131-CAZ231-010000-

YUMA/MARTINEZ LAKE AND VICINITY/LOWER COLORADO RIVER VALLEY AZ-
LOWER COLORADO RIVER VALLEY CA-

448 AM MST WED SEP 30 2015 /448 AM PDT WED SEP 30 2015/

.TODAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....103-107.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-17 PCT.

* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..LIGHT AND VARIABLE IN THE
MORNING...BECOMING SOUTH 5 TO 10 MPH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTH 10 TO 15 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR YUMA.....7800 FT AGL.
* TRANSPORT WIND FOR YUMA.....SOUTH 5 KNOTS.
* DISPERSION FOR YUMA.....FAIR.

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....74-78.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....33-52 PCT.
* 24 HR TREND.....3 PCT WETTER.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 15 TO 25 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.THURSDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....101-105.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-17 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 25 TO 35 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR YUMA.....7600 FT AGL.
* TRANSPORT WIND FOR YUMA.....SOUTHWEST 8 KNOTS.
* DISPERSION FOR YUMA.....GOOD.

.EXTENDED...

.FRIDAY...CLEAR. LOWS 69-76. HIGHS 95-99. NORTHWEST WINDS 5 TO
15 MPH. MINIMUM RELATIVE HUMIDITY MAY BE LOWER THAN 15 PERCENT.
.SATURDAY...CLEAR. LOWS 69-74. HIGHS 95-99. WEST WINDS 5 TO
15 MPH.
.SUNDAY...MOSTLY CLEAR. LOWS 68-74. HIGHS 94-98. SOUTH WINDS
10 TO 20 MPH.
.MONDAY...MOSTLY CLEAR. LOWS 68-74. HIGHS 93-97.
.TUESDAY...MOSTLY CLEAR. LOWS 68-75. HIGHS 94-98.

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CAZ230-010000-

JOSHUA TREE NATIONAL PARK-

448 AM PDT WED SEP 30 2015

.TODAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....88-100.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....13-18 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTH 5 TO 15 MPH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTH 10 TO 15 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....61-75.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....27-38 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 10 TO 20 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.THURSDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....83-99.
* 24 HR TREND.....3 DEGREES COOLER.
* MIN HUMIDITY.....12-19 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTHWEST 10 TO 20 MPH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTHWEST 25 TO 35 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.EXTENDED...

.FRIDAY...CLEAR. LOWS 58-72. HIGHS 81-95. NORTHWEST WINDS 10 TO
20 MPH.

.SATURDAY...CLEAR. LOWS 57-71. HIGHS 82-95. WEST WINDS 10 TO
20 MPH.

.SUNDAY...MOSTLY CLEAR. LOWS 57-70. HIGHS 78-93. SOUTHWEST WINDS

10 TO 20 MPH.
.MONDAY...MOSTLY CLEAR. LOWS 57-70. HIGHS 75-92.
.TUESDAY...MOSTLY CLEAR. LOWS 57-71. HIGHS 77-91.

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CAZ232-010000-
IMPERIAL COUNTY AND EASTERN RIVERSIDE COUNTY-
448 AM PDT WED SEP 30 2015

.TODAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....98-106.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-18 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 10 TO 15 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....74-78.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....30-52 PCT.
* 24 HR TREND.....6 PCT WETTER.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTH 5 TO 15 MPH IN THE
EVENING...BECOMING 15 TO 25 MPH AFTER MIDNIGHT.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.THURSDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....96-104.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-19 PCT.
* 24 HR TREND.....LITTLE CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 10 MPH IN THE
MORNING...BECOMING 10 TO 20 MPH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTHWEST 25 TO 35 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.EXTENDED...

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FXUS65 KPSR 301507
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
805 AM MST WED SEP 30 2015

.SYNOPSIS...

VERY STRONG HIGH PRESSURE OVER THE DESERT SOUTHWEST WILL SUPPORT WELL ABOVE NORMAL TEMPERATURES THROUGH MUCH OF THE WEEK...WITH NEAR RECORD HIGH TEMPERATURES TODAY AND THURSDAY. A COOLING TREND WILL BEGIN FRIDAY AS LOW PRESSURE DIVES INTO THE INTERMOUNTAIN WEST...AND READINGS FINALLY SETTLE CLOSER TO AVERAGE. VERY SLIGHT CHANCES FOR RAIN WILL ENTER THE SOUTHWEST EARLY NEXT WEEK ESPECIALLY ACROSS SOUTH CENTRAL ARIZONA.

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.DISCUSSION... VERY LITTLE HAS CHANGED WITH RESPECT TO OUR WEATHER PATTERN OVER THE PAST 24 HOURS...AS VERY STRONG HIGH PRESSURE ALOFT REMAINED FIRMLY IN PLACE ACROSS THE DESERT SOUTHWEST. MORNING 12Z PLOT DATA SHOWED THAT H5 HEIGHTS HAD CLIMBED ABOUT 10M OR SO OVER SOUTHERN AZ...AND WITH 850MB TEMPS PEAKING NEAR 28C OVER SOUTH CENTRAL AZ THIS AFTERNOON WE SHOULD EXPERIENCE OUR HOTTEST DAY OF THE WEEK TODAY UNDER ESSENTIALLY FULL SUNSHINE. FORECAST HIGH AT PHOENIX TODAY IS 106 BUT IF WE MANAGE TO GET A BIT OF AFTERNOON SOUTHERLY BREEZE IT IS POSSIBLE THAT WE COULD TIE THE RECORD HIGH FOR THE DATE OF 107. OTHERWISE...THE LIGHT GRADIENTS AND LACK OF MIXING MAY PREVENT THE LOWER DESERTS FROM REACHING THEIR FULL HEATING POTENTIAL. STILL...TODAY WILL BE SUNNY AND VERY WARM WITH HIGH TEMPS 10 DEGREES OR MORE ABOVE SEASONAL NORMALS. CURRENT FORECASTS LOOK TO BE IN GOOD SHAPE AND NO UPDATES ARE PLANNED AT THIS TIME.

.PREVIOUS DISCUSSION...

VERY LITTLE CHANGE IN THE REGIONAL FLOW PATTERN SINCE THE BEGINNING OF THE WEEK WITH QUASI-STATIONARY 592DM H5 RIDGING PARKED OVER NW MEXICO...AND A POSITIVELY TILTED TROUGHING SPINNING ACROSS THE EAST PACIFIC BASIN. THIS ALIGNMENT HAS DEFLECTED STORMS SYSTEMS AWAY FROM THE SWRN CONUS WHILE KEEPING THE AREA UNUSUALLY WARM UNDER SEASONALLY HIGH THICKNESSES. HOWEVER...THIS PATTERN WILL ATTEMPT TO RE-ALIGN THROUGH THE LATTER PARTS OF THE WEEK AS TWO PROGRESSIVE SHORTWAVES IN THE CNTRL PACIFIC/GULF OF ALASKA BREAK INTO THE DOWNSTREAM BLOCKED FLOW PATTERN OVER THE BULK OF THE CONUS. THIS WILL KICK ENERGY INTO THE INTERMOUNTAIN WEST...WITH SEVERAL SHORTWAVES APPROACHING THE FORECAST AREA.

IN THE MEANTIME...00Z REGIONAL SOUNDING DATA SAMPLED A VERY WARM ATMOSPHERIC PROFILE WITH H7 TEMPERATURES +12C TO +15C...AND H8 TEMPERATURES +25C TO +28C. HISTORICALLY...THESE READINGS IN THE H8-H5 LAYER ARE PEGGED ABOVE THE 90TH PERCENTILE AND WITHIN 2C OF ALL-

TIME RECORDS FOR THE DATE. NOT SURPRISINGLY WITH FULL INSOLATION AND DEEP MIXING...THIS ENVIRONMENT WILL BE SUPPORTING SFC TEMPERATURES NEAR RECORD LEVELS. THE ONLY POTENTIAL DETRIMENT TO REALIZING RECORDS TODAY MAY BE A WEAKER PRESSURE GRADIENT LIMITING A DEEPER MIXING DEPTH (AND SEASONALLY MORE DIFFICULT TO ACHIEVE NEAR SFC SUPER ADIABATIC LAPSE RATES).

AN IMPRESSIVE LOOKING SHORTWAVE ON WV SATELLITE IMAGERY IN THE CNTRL PACIFIC (42N 152W) WILL ACT AS A KICKER TO THE AFOREMENTIONED POSITIVELY TILTED TROUGH OFF THE CALIFORNIA COAST ON THURSDAY. ENERGY WILL OPEN INTO A NEUTRALLY TILTED PROGRESSIVE WAVE PROPAGATING ACROSS THE SIERRA NEVADA INTO THE GREAT BASIN THROUGH FRIDAY. THIS WILL ALLOW HEIGHTS AND THICKNESS VALUES TO TUMBLE OVER THE SWRN CONUS ALBEIT AMID A RELATIVELY ARID ENVIRONMENT (I.E. NO CHANCE OF RAINFALL). WINDS WILL INCREASE SOMEWHAT DURING THE AFTERNOON HOURS...THOUGH NOT UNUSUALLY STRONG BUT SUFFICIENT TO SUPPORT SOMEWHAT DEEPER MIXING AND ESTABLISHING HIGH TEMPERATURES SOMEWHAT WARMER THAN WOULD BE EXPECTED WITH THE SHARP REDUCTION IN HEIGHTS AND THICKNESSES. REGARDLESS...BEST PERFORMING MODEL GUIDANCE INSISTS TEMPERATURES FRIDAY AND SATURDAY WILL FALL SHORT OF THE 100F THRESHOLD FOR MUCH OF THE FORECAST AREA.

MODEL SPREAD FOR THE FIRST HALF OF NEXT WEEK REMAINS QUITE NOTABLE...AND TO SAY THE FORECAST CARRIES CONSIDERABLE UNCERTAINTY WOULD BE AN UNDERSTATEMENT. THE INFLUENCE OF NORTH ATLANTIC BLOCKING FINALLY TRANSLATES UPSTREAM NEXT WEEK WITH MUCH OF THE WESTERN HEMISPHERE FLOW PATTERN BECOMING AMPLIFIED AND BLOCKED. THE RIDGE CURRENTLY OVER THE SWRN CONUS WILL RETROGRADE AND AMPLIFY THROUGH THE EAST PACIFIC...WHILE COMPACT SHORTWAVE ENERGY CURRENTLY NEAR 59N 148W DIVES EQUATORWARD TO FILL THE VOID LEFT BY THE THURSDAY/FRIDAY GREAT BASIN TROUGH...FORMING A TEMPORARY OMEGA BLOCK BETWEEN THE CNTRL PACIFIC AND WEST COAST OF NORTH AMERICA.

CHARACTERISTICALLY...MODELS HAVE DIFFICULTLY RESOLVING PATTERN ADJUSTMENTS IN BLOCKED REGIMES AND THIS FORECAST IS THE PERFECT EXAMPLE WITH LIMITED RUN TO RUN CONTINUITY AND LARGE ENSEMBLE SPREAD. THE 00Z OPERATIONAL GFS HAS BROKE FROM THE LARGER MULTI-MODEL MEAN LAGGING SHORTWAVE ENERGY OVER THE PACIFIC NORTHWEST AS ENERGY UNDERCUTS THE EAST PACIFIC RIDGE AMPLIFICATION. ONLY A VERY FEW ENSEMBLE MEMBERS SUPPORT SUCH AN OUTCOME...AND THIS SOLUTION WAS LARGELY DISCOUNTED. MORE FORECAST WEIGHT WAS GIVEN TO A BROAD BLEND OF THE OPERATIONAL GEM/ECMWF AND NAEFS ENSEMBLE MEAN TAKING THE COLD CORE CLOSED LOW INTO NEVADA ON SUNDAY...THEN PROGRESSING THIS FEATURE THROUGH UTAH AND COLORADO DURING THE FIRST PART OF NEXT WEEK (ONLY SKIRTING THE FORECAST AREA WITH COLDER TEMPERATURES ALOFT AND FORCED SYNOPTIC ASCENT). THAT SAID...IT SHOULD BE STATED THAT ENSEMBLE SPREAD WITH RESPECT TO POSITIONING AND TIMING OF WAVE STRUCTURES REMAINS VERY LARGE...AND SUBSTANTIAL FUTURE SHIFTS OF THESE ASPECTS (AND THE ASSOCIATED WEATHER FORECAST) MAY BE EXPECTED.

ADDING TO COMPLEXITY OF THIS FORECAST IS THE POTENTIAL INFUSION (OR COMPLETE LACK THEREOF) OF MOISTURE ASSOCIATED WITH THE REMNANTS OF TD MARTY. GIVEN THE PREFERRED MODEL BLEND TAKING SHORTWAVE/JET STREAK ENERGY MORE PROGRESSIVELY INTO UTAH/COLORADO...LOW/MID LEVEL WINDS

WOULD BECOME MORE VEERED TENDING TO DEFLECT MOISTURE TOWARDS SERN ARIZONA/NEW MEXICO. HOWEVER...IF A SLOWER AND SOMEWHAT MORE RETROGRESSIVE SOLUTION COMES TO FRUITION (I.E. OPERATIONAL GFS)...THEN BACKED WINDS COULD AID IN BETTER MOISTURE TRANSPORT THROUGH THE BULK OF CENTRAL ARIZONA. WITH SUCH LARGE SPREAD AMONG OPERATIONAL AND ENSEMBLE MEMBERS AND HUGE UNCERTAINTIES HISTORICALLY IN MOISTURE AVAILABILITY AND TRANSPORT FROM TROPICAL SYSTEMS...HAVE KEPT POPS VERY MODEST UNTIL ANY BETTER CONFIDENCE CAN BE ATTAINED.

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.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...AND SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

LIGHT WINDS FAVORING SOUTHEAST AND SOUTH DIRECTIONS...BECOMING WEST AT KPHX LATER IN THE DAY THAN USUAL. CLEAR SKIES EXCEPT FOR VERY HIGH THIN CIRRUS.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.CLIMATE...

RECORD HIGHS FOR TODAY AND THURSDAY...

| DATE | PHOENIX | YUMA |
|---------|-------------|-------------|
| ----- | ----- | ----- |
| SEPT 30 | 107 IN 2010 | 109 IN 2012 |
| OCT 1 | 107 IN 1980 | 110 IN 1980 |

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.FIRE WEATHER...

FRIDAY THROUGH TUESDAY...

AN EXITING DRY WEATHER SYSTEM WILL BEGIN A COOLING TREND FRIDAY AND THERE WILL BE LINGERING WEST AND NORTHWEST BREEZES. WINDS WILL BE LIGHT SATURDAY BEFORE ANOTHER SYSTEM LEADS TO BREEZY CONDITIONS...WINDY AT RIDGETOPS...SUNDAY AND MONDAY. THERE WILL BE A SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS EAST OF THE LOWER COLORADO RIVER VALLEY SUNDAY INTO TUESDAY ALONG WITH A FEW DEGREES OF ADDITIONAL COOLING ACROSS THE FORECAST AREA. OF NOTE...THIS FORECAST HAS CONSIDERABLE UNCERTAINTY ASSOCIATED WITH IT DUE TO THE WIDE VARIETY OF DIFFERENT SCENARIOS BEING PRESENTED BY THE COMPUTER MODELS. HOWEVER...NONE OF THOSE SCENARIOS WOULD RESULT IN EXTREME CONDITIONS.

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.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING PROCEDURES.

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FXUS66 KSGX 301604
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
900 AM PDT WED SEP 30 2015

.SYNOPSIS... FAIR AND WARM WEATHER WILL CONTINUE TODAY. A PASSING LOW PRESSURE TROUGH WILL BRING COOLER WEATHER WITH LOCALLY GUSTY WESTERLY WINDS THURSDAY. THE MARINE LAYER WILL BE DEEPER BY FRIDAY MORNING... WITH MORE SIGNIFICANT DEEPENING LIKELY BY SUNDAY MORNING AS A COLDER LOW PRESSURE CENTER DROPS SOUTH ALONG THE COAST. THE MOIST LAYER MAY BE DEEP ENOUGH FOR A FEW LIGHT SHOWERS ALONG AND WEST OF THE MOUNTAINS SUNDAY INTO MONDAY. OTHERWISE BREEZY AND MUCH COOLER SUNDAY AND MONDAY.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

AREAS OF THICK FOG BLANKETED THE SAN DIEGO METRO AREA EARLY THIS MORNING. FOG AND LOW CLOUDS BROKE SHORTLY AFTER SUNRISE WITH ABUNDANT SUNSHINE NOW ACROSS THE REGION EXCEPT FOR A FEW PATCHES OF THICKER CLOUDS MOVING THROUGH SOUTHERN CALIFORNIA. MUCH THICKER CLOUD SHIELD ACROSS CENTRAL AND NORTHERN CALIFORNIA...BASICALLY NORTH OF POINT CONCEPTION...ASSOCIATED WITH TOMORROW'S TROUGH PASSAGE.

TEMPERATURES WILL CONTINUE TO TREND ROUGHLY 10 DEGREES ABOVE NORMAL TODAY WITH HIGH TEMPERATURES SIMILAR TO YESTERDAY...AS UPPER LEVEL PATTERN CHANGES LITTLE AND WEAK ONSHORE GRADIENTS CONTINUE INTACT.

ROBUST TROUGH WILL PASS NORTH OF OUR REGION TOMORROW BRINGING A BRIEF COOLDOWN AND GUSTY WINDS THROUGH THE PASSES AND MOUNTAIN SLOPES.

...PREVIOUS DISCUSSION (ISSUED AT 230 AM)...

A TROUGH OF LOW PRESSURE OFF THE NORTHERN CALIFORNIA COAST WILL MOVE THROUGH CALIFORNIA AND NEVADA THURSDAY. ALMOST AS IF THE ATMOSPHERE GOT THE MEMO THAT OCTOBER HAS ARRIVED...IT WILL BE NOTICEABLY COOLER THURSDAY AND FRIDAY WITH DAYTIME HIGHS IN THE 70S AND 80S IN THE COASTAL BASIN AND IN THE MID 90S IN THE LOWER DESERTS. THIS WAVE DOES NOT APPEAR TO DO MUCH TO DEEPEN OUR MARINE LAYER AND EXTEND COASTAL CLOUDS TONIGHT INTO THURSDAY...BUT IT LOOKS TO DEVELOP A COASTAL EDDY THAT CONTINUES INTO FRIDAY. THE MARINE LAYER WILL DEEPEN A LOT BY FRIDAY...BUT THE ACTUAL CLOUD COVER DOES NOT LOOK TOO MURKY OR UNIFORM. SATURDAY BRINGS SLIGHTLY HIGHER PRESSURE ALOFT AND A TOUCH OF OFFSHORE FLOW TO HELP TEMPS REBOUND A LITTLE. MODEL

GUIDANCE FEATURES A WAVE IN ALASKA THAT DEVELOPS INTO A CUTOFF LOW AS IT HEADS SOUTH INTO WASHINGTON ON SATURDAY. MODELS THEN DIVERGE ON SUNDAY...WHERE THE LOW GOES AND WHEN. THE EURO HAS BEEN FAIRLY CONSISTENT BRINGING IT ALL THE WAY DOWN TO BRING SOUTHERN CALIFORNIA COOL...BLUSTERY WEATHER AND SHOWERS SUNDAY THROUGH MONDAY MORNING. THE GFS MODEL STALLS THE LOW OVER NORTHERN CALIFORNIA THEN SLOWLY MOVES IT EASTWARD INTO NEVADA FOR REALLY NO CHANCE OF RAIN FOR OUR REGION...BUT COOL AND BREEZY WEATHER THROUGH TUESDAY. A BLEND WITH GREATER WEIGHT GIVEN TO THE MORE CONSISTENT EURO MODEL IS THE CURRENT THINKING BEHIND OUR FORECAST. IT INCLUDES SMALL CHANCES OF SHOWERS SUNDAY INTO MONDAY...ALONG WITH COOL AND BREEZY WEATHER. FORECAST TEMPS IN THE 70S AND LOW 80S IN THE COASTAL BASIN AND HIGH DESERT THOSE DAYS...WITH 60S IN THE MOUNTAINS AND LOW 90S IN THE LOWER DESERT. DARE I SAY IT WILL FEEL LIKE FALL? FAIR AND WARMER WEATHER WILL FOLLOW TUESDAY IF THE EURO IS RIGHT.

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.AVIATION...

301500Z...COAST/VALLEYS...MOSTLY CLEAR THROUGH 04Z. AFT 04Z...BKN-OVC009-013 TOPS 015 NEAR THE COAST AND SPREADING 15-20SM INLAND. MODERATE CONFIDENCE IN CIGS AT KSAN...KCRQ AND KSNA THURSDAY MORNING BETWEEN 10Z-15Z.

MOUNTAINS/DESERTS...FEW-SCT CLOUDS AOA 20000 FT AND UNRESTRICTED VIS THROUGH THURSDAY.

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.MARINE...

800 AM...NORTHWEST WIND GUSTS OF 20 KT OVER THE OUTER WATERS THIS AFTERNOON AND EVENING. STRONGER WINDS THURSDAY AFTERNOON AND EVENING WHEN WINDS WILL GUST TO 25 KT OVER THE OUTER WATERS. LIGHTER WINDS FRIDAY THROUGH SUNDAY.

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.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

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PUBLIC...JMB

624
FXUS65 KPSR 302146
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
245 PM MST WED SEP 30 2015

.SYNOPSIS...
VERY STRONG HIGH PRESSURE OVER THE DESERT SOUTHWEST WILL SUPPORT WELL ABOVE NORMAL TEMPERATURES THROUGH THURSDAY...WITH NEAR RECORD HIGH TEMPERATURES POSSIBLE. A COOLING TREND WILL BEGIN FRIDAY AS LOW PRESSURE DIVES INTO THE INTERMOUNTAIN WEST...AND READINGS FINALLY SETTLE CLOSER TO AVERAGE. VERY SLIGHT CHANCES FOR RAIN WILL ENTER THE SOUTHWEST EARLY NEXT WEEK ESPECIALLY ACROSS SOUTH CENTRAL ARIZONA.

&&

.DISCUSSION...

STRONG HIGH PRESSURE ALOFT REMAINS ENTRENCHED ACROSS THE DESERT SOUTH EARLY THIS AFTERNOON...AND THE MORNING PLOT DATA SHOWED JUST HOW STRONG THE RIDGE ALOFT IS WITH H5 VALUES UP TO 592DM ACROSS SOUTHERN ARIZONA. THE AIRMASS IS VERY DRY AND STABLE WITH PWAT VALUES JUST 070 INCHES AT TUCSON...AND SURFACE DEWPOINTS OVER THE LOWER CENTRAL DESERTS AT 2 PM WERE MOSTLY IN THE 40S AND RUNNING 2-13 DEGREES LOWER THAN 24 HOURS AGO. WE EXPECT HIGH TEMPS TODAY TO PEAK AT OR SLIGHTLY ABOVE YESTERDAYS READINGS WITH PHOENIX TO TOP OUT NEAR 106.

ON THURSDAY AN AREA OF LOW PRESSURE DEVELOPING OFF THE NRN CALIFORNIA COAST IS FORECAST TO PUSH INLAND AND INTO NRN/CENTRAL CA AND WRN NEVADA...LOWERING HEIGHTS OUT WEST AND TIGHTENING GRADIENTS ACROSS SERN CA AND WESTERN ARIZONA. WE WILL SEE INCREASING BREEZINESS OVER THE WESTERN DESERTS THURSDAY AFTERNOON AND SOME COOLING. HOWEVER...SOUTH CENTRAL AZ WILL LIKELY STAY NEAR TODAYS READINGS WITH HIGH TEMPS 10 DEGREES ABOVE NORMAL AS THE COOLING WILL BE MOSTLY ALOFT AND WILL NOT MIX TO THE SURFACE. SKIES SHOULD BE SUNNY. MODELS ALL AGREE NICELY THAT THE OPEN WAVE TROF WILL MOVE STEADILY EASTWARD AND PASS BY TO OUR NORTH ON FRIDAY AND AS H5 HEIGHTS FALL TO NEAR 580DM OVER NORTH PHOENIX WE WILL SEE A MARKED COOLING TREND. HIGHS ACROSS THE LOWER DESERTS SHOULD FALL INTO THE MID TO UPPER 90S WITH PHOENIX SLATED TO TOP OUT AT 98 DEGREES...JUST A FEW DEGREES ABOVE NORMAL...UNDER CONTINUED SUNNY SKIES. IT WILL REMAIN LOCALLY BREEZY DURING THE AFTERNOON AS A RESULT OF THE PASSING TROF.

DRY NORTHWEST FLOW ALOFT WILL OVERSPREAD THE DESERTS SATURDAY IN THE WAKE OF THE PASSING TROF...EXPECT SUNNY SKIES ALONG WITH SLIGHTLY COOLER HIGH TEMPERATURES DROPPING TO NEAR OR SLIGHTLY ABOVE NORMAL READINGS.

MODEL SPREAD FOR SUNDAY INTO THE FIRST HALF OF NEXT WEEK REMAINS QUITE NOTABLE...AND TO SAY THE FORECAST CARRIES CONSIDERABLE UNCERTAINTY WOULD BE AN UNDERSTATEMENT. THE INFLUENCE OF NORTH ATLANTIC BLOCKING FINALLY TRANSLATES UPSTREAM NEXT WEEK WITH MUCH OF THE WESTERN HEMISPHERE FLOW PATTERN BECOMING AMPLIFIED AND BLOCKED. THE RIDGE CURRENTLY OVER THE SWRN CONUS WILL RETROGRADE AND AMPLIFY THROUGH THE EAST PACIFIC...WHILE COMPACT SHORTWAVE ENERGY CURRENTLY NEAR 59N 148W DIVES EQUATORWARD TO FILL THE VOID LEFT BY THE THURSDAY/FRIDAY GREAT BASIN TROUGH...FORMING A TEMPORARY OMEGA BLOCK BETWEEN THE CNTRL PACIFIC AND WEST COAST OF NORTH AMERICA.

CHARACTERISTICALLY...MODELS HAVE DIFFICULTLY RESOLVING PATTERN ADJUSTMENTS IN BLOCKED REGIMES AND THIS FORECAST IS THE PERFECT EXAMPLE WITH LIMITED RUN TO RUN CONTINUITY AND LARGE ENSEMBLE SPREAD. THE 00Z OPERATIONAL GFS HAS BROKE FROM THE LARGER MULTI-MODEL MEAN LAGGING SHORTWAVE ENERGY OVER THE PACIFIC NORTHWEST AS ENERGY UNDERCUTS THE EAST PACIFIC RIDGE AMPLIFICATION. ONLY A VERY FEW ENSEMBLE MEMBERS SUPPORT SUCH AN OUTCOME...AND THIS SOLUTION WAS LARGELY DISCOUNTED. MORE FORECAST WEIGHT WAS GIVEN TO A BROAD BLEND OF THE OPERATIONAL GEM/ECMWF AND NAEFS ENSEMBLE MEAN TAKING THE COLD CORE CLOSED LOW INTO NEVADA ON SUNDAY...THEN PROGRESSING THIS FEATURE THROUGH UTAH AND COLORADO DURING THE FIRST PART OF NEXT WEEK (ONLY SKIRTING THE FORECAST AREA WITH COLDER TEMPERATURES ALOFT AND FORCED SYNOPTIC ASCENT). THAT SAID...IT SHOULD BE STATED THAT ENSEMBLE SPREAD WITH RESPECT TO POSITIONING AND TIMING OF WAVE STRUCTURES REMAINS VERY LARGE...AND SUBSTANTIAL FUTURE SHIFTS OF THESE ASPECTS (AND THE ASSOCIATED WEATHER FORECAST) MAY BE EXPECTED.

ADDING TO COMPLEXITY OF THIS FORECAST IS THE POTENTIAL INFUSION (OR COMPLETE LACK THEREOF) OF MOISTURE ASSOCIATED WITH THE REMNANTS OF TD MARTY. GIVEN THE PREFERRED MODEL BLEND TAKING SHORTWAVE/JET STREAK ENERGY MORE PROGRESSIVELY INTO UTAH/COLORADO...LOW/MID LEVEL WINDS WOULD BECOME MORE VEERED TENDING TO DEFLECT MOISTURE TOWARDS SERN ARIZONA/NEW MEXICO. HOWEVER...IF A SLOWER AND SOMEWHAT MORE RETROGRESSIVE SOLUTION COMES TO FRUITION (I.E. OPERATIONAL GFS)...THEN BACKED WINDS COULD AID IN BETTER MOISTURE TRANSPORT THROUGH THE BULK OF CENTRAL ARIZONA. WITH SUCH LARGE SPREAD AMONG OPERATIONAL AND ENSEMBLE MEMBERS AND HUGE UNCERTAINTIES HISTORICALLY IN MOISTURE AVAILABILITY AND TRANSPORT FROM TROPICAL SYSTEMS...HAVE KEPT POPS VERY MODEST UNTIL ANY BETTER CONFIDENCE CAN BE ATTAINED.

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.AVIATION...
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...AND
SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

PERSISTENT STRONG HIGH PRESSURE ALOFT WILL KEEP WINDS RATHER LIGHT AND DIURNAL THROUGH THURSDAY MORNING AT THE TAF SITES. SKIES WILL BE GENERALLY CLEAR WITH MAYBE A BIT OF THIN VERY HIGH CIRRUS BLEEDING THROUGH THE RIDGE AT TIMES AND MOVING ACROSS THE TERMINALS. NO AVIATION CONCERNS THROUGH AT LEAST 18Z THURSDAY. SOME INCREASE IN SOUTH TO SOUTHWEST BREEZINESS WILL DEVELOP THURSDAY AFTERNOON AS AN AREA OF LOW PRESSURE APPROACHES FROM THE NORTHWEST...BUT THE BREEZES SHOULD NOT REALLY AFFECT THE PHOENIX AREA TAF SITES.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.CLIMATE...

RECORD HIGHS FOR TODAY AND THURSDAY...

| DATE | PHOENIX | YUMA |
|---------|-------------|-------------|
| ---- | ----- | ---- |
| SEPT 30 | 107 IN 2010 | 109 IN 2012 |
| OCT 1 | 107 IN 1980 | 110 IN 1980 |

&&

.FIRE WEATHER...

SATURDAY THROUGH WEDNESDAY... AN EXITING DRY WEATHER SYSTEM WILL KEEP DRY NORTHWEST FLOW ALOFT IN PLACE SATURDAY WITH TEMPERATURES SLIGHTLY ABOVE SEASONAL NORMALS. WINDS WILL BE LIGHT SATURDAY BEFORE ANOTHER SYSTEM LEADS TO BREEZY CONDITIONS...WINDY AT RIDGETOPS... SUNDAY AND MONDAY. THERE WILL BE A SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS EAST OF THE LOWER COLORADO RIVER VALLEY...AND PRIMARILY OVER SOUTH CENTRAL ARIZONA...SUNDAY INTO TUESDAY ALONG WITH A FEW DEGREES OF ADDITIONAL COOLING ACROSS THE FORECAST AREA. MINIMUM HUMIDITY VALUES SATURDAY INTO THE EARLY PART OF NEXT WEEK WILL BE ELEVATED AND RANGE FROM THE UPPER TEENS THROUGH MID 20S FOR THE MOST PART ACROSS THE DESERTS...WITH HIGHER AMOUNTS OVER HIGHER TERRAIN EAST OF PHOENIX. OF NOTE...THIS FORECAST HAS CONSIDERABLE UNCERTAINTY ASSOCIATED WITH IT DUE TO THE WIDE VARIETY OF DIFFERENT SCENARIOS BEING PRESENTED BY THE COMPUTER MODELS. HOWEVER...NONE OF THOSE SCENARIOS WOULD RESULT IN EXTREME CONDITIONS.

&&

.SPOTTER INFORMATION STATEMENT...
SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING PROCEDURES.

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.PSR WATCHES/WARNINGS/ADVISORIES...
AZ...NONE.
CA...NONE.
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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...CB/CB
AVIATION...CB

117
FXUS66 KSGX 010401
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
900 PM PDT WED SEP 30 2015

.SYNOPSIS...COOLER WEATHER WITH GUSTY WESTERLY WINDS THURSDAY THROUGH THURSDAY NIGHT. THE MARINE LAYER WILL BE DEEPER BY FRIDAY MORNING...EXTENDING INLAND TO THE FOOTHILLS. TEMPERATURES REBOUND A LITTLE ON SATURDAY...BEFORE A COLDER LOW PRESSURE SYSTEM MOVES SOUTH ALONG THE COAST...BRINGING EVEN COOLER WEATHER WITH CLOUDY SKIES. THIS SYSTEM MAY ALSO GENERATE A PERIOD OF RAIN SHOWERS ACROSS SOUTHERN CALIFORNIA SUNDAY INTO MONDAY...IN ADDITION TO BEING BREEZY AND MUCH COOLER THROUGH MID NEXT WEEK. FAIR AND WARMER AGAIN FOR NEXT WEDNESDAY THROUGH FRIDAY.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

MOSTLY CLEAR THIS EVENING WITH LIGHT WINDS AND TEMPERATURES GENERALLY A FEW DEGREES HIGHER THAN THIS TIME YESTERDAY. AREAS OF LOW CLOUDS AND FOG ARE LIKELY AGAIN LATER TONIGHT IN THE COASTAL AREAS AND WESTERN PORTIONS OF THE INLAND VALLEYS.

FOR THU AND FRI...A LOW PRESSURE SYSTEM MOVING INLAND ACROSS CENTRAL AND NORTHERN CALIFORNIA WILL EXTEND ITS INFLUENCE TO SOCAL. IT WILL BRING LOWER TEMPERATURES...A DEEPER MARINE LAYER WITH INCREASING CLOUDS...AND GUSTY WEST WINDS IN THE MTNS AND ADJACENT DESERT AREAS. ON FRI...TEMPS WEST OF THE MTNS ARE UNLIKELY TO REACH 90 DEGREES EVEN IN THE INLAND EMPIRE. THE WINDS WILL BE STRONGEST ON FRI...AND WIND GUSTS COULD APPROACH 50 MPH IN THE WINDIEST MTN LOCATIONS. AS THE MARINE LAYER DEEPENS...LOW CLOUDS COULD REACH THE COASTAL SLOPES BY FRI MORNING.

ON SAT...TEMPERATURES RECOVER SOMEWHAT UNDER FAIR SKIES AS WE ARE BETWEEN LOW PRESSURE SYSTEMS.

BY SAT NIGHT WE BEGIN TO FEEL THE EFFECTS OF A LOW PRESSURE SYSTEM MOVING SOUTH ALONG THE CALIFORNIA COAST. THE TRAJECTORY OF THIS SYSTEM WILL HAVE TAKEN IT ACROSS ALASKA AND BRITISH COLUMBIA BEFORE IT MAKES ITS WAY INTO CENTRAL AND SOUTHERN CALIFORNIA BY LATE SUN. AS A RESULT...IT WILL BRING SIGNIFICANT COLD AIR SO WE EXPECT DAYTIME TEMPS IN THE 70S WEST OF THE MTNS ON SUN AND MON...WITH OVERNIGHT LOWS IN THE 50S. THE LOW IS EXPECTED TO BRING ENOUGH MOISTURE FOR PERIODS OF SHOWERS SUN THROUGH MON...AND A DUSTING OF SNOW IS NOT OUT OF THE QUESTION FOR THE HIGHEST PEAKS OF THE SAN BERNARDINO AND SAN JACINTO MTNS...ALTHOUGH ACCUMULATION IS UNLIKELY.

STRONG AND GUSTY WEST WINDS WILL ALSO ACCOMPANY THIS SYSTEM.

FOR TUE THROUGH WED...AS THE LOW MOVES EAST AND A WEAK RIDGE OF HIGH PRESSURE BUILDS IN FROM THE WEST...FAIR WEATHER RETURNS AND TEMPS ONCE AGAIN RISE.

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.AVIATION...

010330Z...COAST/VALLEYS...MOSTLY CLEAR THIS EVENING. LOW CLOUDS...WITH BASES AROUND 1300 FT MSL AND TOPS NEAR 1600 FT MSL...ARE FORECAST TO DEVELOP OVERNIGHT AS A COASTAL EDDY STRENGTHENS. VIS AROUND 2-4SM BR IS POSSIBLE AS LOW CLOUDS NEAR HIGHER TERRAIN. STRATUS WILL CLEAR TOWARDS THE COAST BY LATE THU MORNING. HIGH CLOUDS WILL INCREASE THROUGH THE DAY THU. CONFIDENCE IN LOW CLOUD FORECAST IS MODERATE.

MTNS/DESERTS...FEW-SCT CLOUDS AOA 20000 FT AND UNRESTRICTED VIS THROUGH THU.

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.MARINE...

830 PM...NW WIND GUSTS OF 20 TO 25 KT WILL DEVELOP OVER THE OUTER WATERS THU AFTN THROUGH FRI MORNING AS A TROUGH MOVES ACROSS THE REGION. A SMALL CRAFT ADVISORY IS IN EFFECT FROM 11 AM THURSDAY TO 3 AM FRIDAY FOR THE OUTER WATERS. WEAK TO MODERATE ONSHORE FLOW WILL DEVELOP FOR THE WEEKEND.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...SMALL CRAFT ADVISORY FROM 11 AM THURSDAY TO 3 AM PDT FRIDAY FOR WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...PG

AVIATION/MARINE...JJT

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463
FXUS66 KSGX 010935
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
300 AM PDT THU OCT 1 2015

.SYNOPSIS...A TROUGH OF LOW PRESSURE MOVING THROUGH CALIFORNIA TODAY WILL BRING COOLER WEATHER TODAY...ALONG WITH LOCALLY STRONG WESTERLY WINDS LATE TODAY IN THE MOUNTAINS AND DESERTS. FRIDAY WILL CONTINUE COOL WITH A DEEP MARINE LAYER AND SATURDAY WILL BE A LITTLE WARMER. ON SUNDAY AND MONDAY A LOW PRESSURE SYSTEM WILL MOVE THROUGH CALIFORNIA. IT WILL BRING MUCH COOLER WEATHER AND A CHANCE OF SHOWERS MAINLY FROM THE COAST TO THE MOUNTAINS. DRY AND WARMER WEATHER WILL FOLLOW TUESDAY AND WEDNESDAY.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

SKIES WERE PERFECTLY CLEAR OVER THE REGION EARLY THIS MORNING...BUT WE EXPECT A FEW COASTAL CLOUDS AND PATCHES OF FOG TO DEVELOP BY SUNRISE. OTHERWISE TODAY WILL BE QUITE SUNNY WITH A FEW HIGH CLOUDS AND NOTICEABLY COOLER...RIGHT ON SCHEDULE FOR THE FIRST DAY OF OCTOBER. A TROUGH OF LOW PRESSURE WILL MOVE THROUGH CALIFORNIA TODAY. WITH IT WILL BE A BOOST TO ONSHORE FLOW THAT WILL PRODUCE LOCALLY STRONG WESTERLY WINDS IN THE MOUNTAINS AND DESERTS. SOME GUSTS OVER 40 MPH CAN BE EXPECTED THIS AFTERNOON THROUGH TONIGHT THROUGH FAVORED MOUNTAIN PASSES...ADJACENT DESERTS AND ALONG RIDGELINES. AN INTERMITTENT COASTAL EDDY WILL HELP BUILD AND DEEPEN THE MARINE LAYER...SO SOME CLOUDS ARE EXPECTED ANYWHERE IN THE COASTAL BASIN TONIGHT INTO FRIDAY. THE TROUGH SLOWLY MOVES OUT ON FRIDAY. SATURDAY SHOULD HAVE A SHALLOWER MARINE LAYER WITH NOT A LOT OF COASTAL CLOUDS...AND WARMER DAYTIME WEATHER. WHILE WE ENJOY A PRETTY NICE SATURDAY...A COMPACT AND ROBUST CUT OFF LOW WILL DROP STRAIGHT DOWN THE WEST COAST AND INTO SOUTHERN CALIFORNIA SUNDAY. SOUTHERLY WINDS WILL PICK UP AND INITIALLY THIS SYSTEM WILL GREATLY DEEPEN THE MARINE LAYER AND PRODUCE SHOWERS EARLY SUNDAY MORNING. DURING THE DAY THE CHANCE OF SHOWERS WILL EXTEND TO MOUNTAINS AS WELL. THE LOW SLOWLY MOVES EAST MONDAY AND WEAKENS AS IT DOES SO SHOWERS WILL DIMINISH BY LATE MONDAY. MODELS SHOW MUCH BETTER CONSENSUS ON TIMING WHICH RAISES CONFIDENCE...BUT NOT SUCH GREAT AGREEMENT ON LOCATION. RAINFALL AMOUNTS WILL BE QUITE LIGHT...NOT EXPECTING MORE THAN A QUARTER INCH OR SO...AND EVEN A DUSTING OF SNOW ON OUR HIGHEST PEAKS. IT WILL BE COOL FOR SURE DURING THIS MINI STORM...WITH 70S MOST COMMON IN THE COASTAL BASIN AND HIGH DESERT...50 AND 60S IN THE MOUNTAINS AND ONLY 80S IN THE LOW DESERT. HIGH PRESSURE LOOKS TO REBUILD TUESDAY AND WEDNESDAY FOR FAIR AND WARMER WEATHER.

&&

.AVIATION...

010804Z...COAST/VALLEYS...A FEW PATCHES OF BKN-OVC CLOUDS MAY DEVELOP WITHIN 5-15 SM OF THE COAST THROUGH 1500 UTC...WITH BASES AROUND 1000-1500 FT MSL AND TOPS AROUND 1500-2000 FT MSL. CONFIDENCE IN LOW CLOUD OCCURRENCE FOR KSN AND KCRQ IS LOW-TO-MODERATE...WITH LOW CONFIDENCE FOR KSN. ANY LOW CLOUDS SHOULD CLEAR OUT DURING THE 1500-1800 UTC TIME-FRAME. 1700-02/0000 UTC...UNRESTRICTED VIS AND MOSTLY SKC. 02/0000-1500 UTC...BKN-OVC CLOUDS LIKELY TO DEVELOP WITHIN 30-50 SM OF THE COAST...WITH BASES AND TOPS RISING TO AROUND 2000 FT MSL AND 2500-3000 FT MSL RESPECTIVELY.

MOUNTAINS/DESERTS...SKC...BECOMING FEW-SCT CLOUDS AOA 20000 FT AFTER 02/0000 UTC. UNRESTRICTED VIS THROUGH FRIDAY MORNING. AFTER 2100 UTC...WEST TO SOUTHWEST WINDS 15-25 KT WITH GUSTS 35-40 KT OVER MTN RIDGES...THROUGH/BELOW CANYONS/PASSES...ALONG DESERT SLOPES AND INTO ADJACENT DESERT AREAS WILL CREATE MOD-STG UDDFS/LLWS OVER AND EAST OF THE MTNS.

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.MARINE... 104 AM...NORTHWEST WIND GUSTS OF 20 TO 25 KT WILL DEVELOP OVER THE OUTER WATERS THIS AFTERNOON THROUGH EARLY FRIDAY MORNING AS A TROUGH MOVES ACROSS THE REGION. A SMALL CRAFT ADVISORY GOES INTO EFFECT AT 11 AM AND CONTINUES THROUGH 3 AM FRIDAY FOR THE OUTER WATERS. WINDS WILL DIMINISH BY MID MORNING FRIDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...SMALL CRAFT ADVISORY FROM 11 AM THIS MORNING TO 3 AM PDT FRIDAY FOR WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...MM

AVIATION/MARINE...HARRISON

┌
210
FNUS55 KPSR 011036
FWFPSR

FIRE WEATHER PLANNING FORECAST FOR SOUTHWEST AND SOUTH-CENTRAL
ARIZONA AND SOUTHEAST CALIFORNIA
NATIONAL WEATHER SERVICE PHOENIX AZ
336 AM MST THU OCT 1 2015

.DISCUSSION...

DRY WEATHER WILL PREVAIL THE NEXT COUPLE DAYS WITH UNUSUALLY WARM
TEMPERATURES TODAY COOLING CLOSER TO THE SEASONAL NORMAL ON FRIDAY.
WINDS WILL BECOME LOCALLY GUSTY THIS AFTERNOON AND EVENING...AND
AGAIN ON FRIDAY AFTERNOON. THE STRONGEST WINDS WILL BE SEEN IN THE
TYPICAL WINDY AREAS OF SOUTHEAST CALIFORNIA. AFTERNOON HUMIDITY
LEVELS WILL FALL INTO THE TEENS WITH FAIR TO GOOD OVERNIGHT
RECOVERY.

...THUNDERSTORMS IMPLY GUSTY WINDS...

NOTE...ADDITIONAL FIRE WEATHER FORECAST INFORMATION CAN BE FOUND
IN THE AREA FORECAST DISCUSSION. SEE PRODUCT PHXAFDPSR.

AZZ132-012245-
WEST CENTRAL DESERTS/NORTHWEST MARICOPA COUNTY/GREATER PHOENIX
AREA/SOUTHWEST DESERTS/SOUTHWEST MARICOPA COUNTY/
NORTHWEST AND NORTH-CENTRAL PINAL COUNTY-
PHOENIX BLM/YUM BLM/CAZ-CRZ-
336 AM MST THU OCT 1 2015

.TODAY...

- * SKY/WEATHER.....SUNNY.
- * MAX TEMPERATURE.....99-105.
- * 24 HR TREND.....LITTLE CHANGE.
- * MIN HUMIDITY.....11-16 PCT.
- * 24 HR TREND.....LITTLE CHANGE.
- * WINDS - 20 FEET...SLOPE/VALLEY..SOUTHEAST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTHWEST 5 TO 15 MPH IN THE AFTERNOON.
- * WINDS...10000 FT MSL.....SOUTHWEST 25 TO 35 MPH.
- * CHANCE OF PRECIP.....0 PERCENT.
- * LAL.....1.
- * HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
- * MIXING HEIGHT FOR PHOENIX.....10900 FT AGL.
- * TRANSPORT WIND FOR PHOENIX.....SOUTHWEST 14 KNOTS.
- * DISPERSION FOR PHOENIX.....EXCELLENT.

.TONIGHT...

- * SKY/WEATHER.....CLEAR.
- * MIN TEMPERATURE.....73-83.
- * 24 HR TREND.....LITTLE CHANGE.
- * MAX HUMIDITY.....34-41 PCT.

* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH IN THE
EVENING...BECOMING 30 TO 40 MPH AFTER MIDNIGHT.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

.FRIDAY...
* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....91-97.
* 24 HR TREND.....8 DEGREES COOLER.
* MIN HUMIDITY.....13-18 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 30 TO 40 MPH IN THE
MORNING...BECOMING 20 TO 30 MPH IN THE AFTERNOON.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....5 OR MODERATE POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR PHOENIX.....8600 FT AGL.
* TRANSPORT WIND FOR PHOENIX.....SOUTHWEST 13 KNOTS.
* DISPERSION FOR PHOENIX.....EXCELLENT.

.EXTENDED...

.SATURDAY...CLEAR. LOWS 67-77. HIGHS 91-97. SOUTH WINDS 5 TO
15 MPH.

.SUNDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 69-79. HIGHS 90-96. SOUTH WINDS 10 TO 20 MPH.

.MONDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 66-76. HIGHS 88-93. SOUTH WINDS 10 TO 20 MPH.

.TUESDAY...MOSTLY CLEAR. LOWS 64-74. HIGHS 88-94.

.WEDNESDAY...MOSTLY CLEAR. LOWS 64-74. HIGHS 89-95.

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AZZ133-012245-

SOUTHERN GILA COUNTY/TONTO NATIONAL FOREST FOOTHILLS-

SOUTHERN TONTO NF/WEST SAN CARLOS BIA/SOUTH PORTION FT APACHE BIA/
CAZ-

336 AM MST THU OCT 1 2015

.TODAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....88-102.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....12-18 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHEAST 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTHWEST 5 TO 15 MPH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

* HAINES HIGH LEVEL INDEX.....3 OR VERY LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....58-75.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....36-50 PCT.
* 24 HR TREND.....4 PCT DRIER.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH IN THE
EVENING...BECOMING 30 TO 40 MPH AFTER MIDNIGHT.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.

.FRIDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....81-94.
* 24 HR TREND.....8 DEGREES COOLER.
* MIN HUMIDITY.....16-22 PCT.
* 24 HR TREND.....4 PCT WETTER.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTH 5 TO 10 MPH IN THE
MORNING...BECOMING SOUTHWEST 5 TO 15 MPH IN THE AFTERNOON.
* WINDS...10000 FT MSL.....SOUTHWEST 30 TO 40 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.EXTENDED...

.SATURDAY...MOSTLY CLEAR. LOWS 52-69. HIGHS 78-91. SOUTH WINDS
5 TO 15 MPH.
.SUNDAY...PARTLY CLOUDY WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 54-69. HIGHS 75-89. SOUTH WINDS 5 TO 15 MPH.
.MONDAY...PARTLY CLOUDY WITH CHANCE OF SHOWERS AND THUNDERSTORMS.
LOWS 54-69. HIGHS 72-87. SOUTH WINDS 10 TO 20 MPH.
.TUESDAY...PARTLY CLOUDY WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 53-66. HIGHS 75-88.
.WEDNESDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 53-66. HIGHS 76-89.

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AZZ131-CAZ231-012245-

YUMA/MARTINEZ LAKE AND VICINITY/LOWER COLORADO RIVER VALLEY AZ-
LOWER COLORADO RIVER VALLEY CA-
336 AM MST THU OCT 1 2015 /336 AM PDT THU OCT 1 2015/

.TODAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....101-105.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....13-18 PCT.

* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR YUMA.....7700 FT AGL.
* TRANSPORT WIND FOR YUMA.....SOUTHWEST 8 KNOTS.
* DISPERSION FOR YUMA.....GOOD.

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....74-80.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....38-46 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 25 TO 35 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.FRIDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....94-98.
* 24 HR TREND.....7 DEGREES COOLER.
* MIN HUMIDITY.....14-19 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..NORTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 25 TO 35 MPH IN THE
MORNING...BECOMING WEST 15 TO 25 MPH IN THE AFTERNOON.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.
* MIXING HEIGHT FOR YUMA.....7000 FT AGL.
* TRANSPORT WIND FOR YUMA.....NORTHWEST 7 KNOTS.
* DISPERSION FOR YUMA.....GOOD.

.EXTENDED...

.SATURDAY...CLEAR. LOWS 68-75. HIGHS 95-99. WEST WINDS 5 TO
10 MPH.
.SUNDAY...MOSTLY CLEAR. LOWS 70-75. HIGHS 94-98. SOUTH WINDS
10 TO 20 MPH.
.MONDAY...MOSTLY CLEAR. LOWS 67-75. HIGHS 92-96. WEST WINDS 5 TO
15 MPH.
.TUESDAY...MOSTLY CLEAR. LOWS 66-72. HIGHS 93-97.
.WEDNESDAY...MOSTLY CLEAR. LOWS 66-73. HIGHS 94-98.

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CAZ230-012245-

JOSHUA TREE NATIONAL PARK-

336 AM PDT THU OCT 1 2015

.TODAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....83-97.
* 24 HR TREND.....4 DEGREES COOLER.
* MIN HUMIDITY.....15-20 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....64-73.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....37-44 PCT.
* 24 HR TREND.....7 PCT WETTER.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 10 TO 20 MPH.
* WINDS...10000 FT MSL.....WEST 15 TO 25 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.FRIDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....79-92.
* 24 HR TREND.....5 DEGREES COOLER.
* MIN HUMIDITY.....17-24 PCT.
* 24 HR TREND.....3 PCT WETTER.
* WINDS - 20 FEET...SLOPE/VALLEY..NORTHWEST 10 TO 20 MPH.
* WINDS...10000 FT MSL.....NORTHWEST 10 TO 20 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.EXTENDED...

.SATURDAY...CLEAR. LOWS 60-71. HIGHS 82-95. WEST WINDS 5 TO
15 MPH.

.SUNDAY...MOSTLY CLEAR. LOWS 62-71. HIGHS 77-92. SOUTHWEST WINDS
10 TO 20 MPH.

.MONDAY...MOSTLY CLEAR WITH SLIGHT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS 54-71. HIGHS 75-90. WEST WINDS 5 TO 15 MPH.

.TUESDAY...MOSTLY CLEAR. LOWS 53-66. HIGHS 76-91.

.WEDNESDAY...MOSTLY CLEAR. LOWS 53-67. HIGHS 77-92.

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CAZ232-012245-

IMPERIAL COUNTY AND EASTERN RIVERSIDE COUNTY-

336 AM PDT THU OCT 1 2015

.TODAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....96-104.
* 24 HR TREND.....LITTLE CHANGE.
* MIN HUMIDITY.....13-19 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..SOUTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 20 TO 30 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.TONIGHT...

* SKY/WEATHER.....CLEAR.
* MIN TEMPERATURE.....74-78.
* 24 HR TREND.....LITTLE CHANGE.
* MAX HUMIDITY.....37-47 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..WEST 10 TO 20 MPH.
* WINDS...10000 FT MSL.....SOUTHWEST 25 TO 35 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.

.FRIDAY...

* SKY/WEATHER.....SUNNY.
* MAX TEMPERATURE.....91-97.
* 24 HR TREND.....6 DEGREES COOLER.
* MIN HUMIDITY.....15-21 PCT.
* 24 HR TREND.....LITTLE RH CHANGE.
* WINDS - 20 FEET...SLOPE/VALLEY..NORTHWEST 5 TO 15 MPH.
* WINDS...10000 FT MSL.....WEST 15 TO 25 MPH.
* CHANCE OF PRECIP.....0 PERCENT.
* CWR (>= 0.10 IN).....0 PERCENT.
* LAL.....1.
* HAINES HIGH LEVEL INDEX.....4 OR LOW POTENTIAL FOR LARGE
PLUME DOMINATED FIRE GROWTH.

.EXTENDED...

.SATURDAY...CLEAR. LOWS 70-76. HIGHS 92-98. WEST WINDS 5 TO
15 MPH.

.SUNDAY...MOSTLY CLEAR. LOWS 72-76. HIGHS 89-97. SOUTHWEST WINDS
10 TO 20 MPH.

963
FXUS65 KPSR 011056
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
356 AM MST THU OCT 1 2015

.SYNOPSIS...
WELL ABOVE NORMAL TEMPERATURES CONTINUE TODAY BEFORE HIGH PRESSURE
GIVES WAY TO A COUPLE OF LOW PRESSURE SYSTEMS THAT WILL AFFECT THE
WESTERN STATES. THE FIRST ONE WILL BE DRY AND WILL LEAD TO LOCALLY
BREEZY CONDITIONS THIS AFTERNOON AND EVENING AS IT APPROACHES BEFORE
IT BRINGS COOLER TEMPERATURES FRIDAY. THE NEXT SYSTEM BRINGS
ADDITIONAL COOLING AND RAIN CHANCES...MAINLY TO SOUTH-CENTRAL
ARIZONA...LATER SUNDAY INTO TUESDAY. ANTICIPATE HIGHS TO REMAIN BELOW
100 FRIDAY THROUGH WEDNESDAY.

&&

.DISCUSSION...
TODAY THROUGH SATURDAY...
ANOTHER VERY WARM DAY TODAY WITH HIGHS VERY CLOSE TO YESTERDAY OVER
SOUTH-CENTRAL ARIZONA BUT A BIT COOLER FURTHER WEST. THE COOLING WILL
BE IN RESPONSE TO AN APPROACHING LOW PRESSURE SYSTEM CENTERED OFF THE
NORTHERN CALIFORNIA COAST EARLY THIS MORNING. AS THE SYSTEM TRACKS
EASTWARD ACROSS THE WESTERN STATES IT WILL DISPLACE THE RIDGE. IN THE
PROCESS THERE WILL BE AN UPSWING IN THE WIND SPEEDS FOR THIS
AFTERNOON AND EVENING...ESPECIALLY OVER SOUTHEAST CALIFORNIA...AND
WELCOME COOLING FRIDAY. IN FACT...HIGHS ON THE LOWER DESERTS FRIDAY
WILL FINALLY DIP BELOW 100. ANTICIPATE LITTLE CHANGE IN TEMPERATURES
SATURDAY. THE SYSTEM WILL BE DRY FOR SOUTHERN ARIZONA AND SOUTHEAST
CALIFORNIA WITH THE BRUNT OF IT PASSING TO THE NORTH.

SUNDAY THROUGH WEDNESDAY...
ANOTHER SYSTEM AFFECTS THE DESERT SOUTHWEST BEGINNING SUNDAY AS A
DEEP UPPER LOW BECOMES CENTERED OVER CENTRAL CALIFORNIA AS PART OF AN
OMEGA PATTERN OVER THE NORTHEAST PACIFIC AND WESTERN NORTH AMERICA.
FOR SEVERAL DAYS MODELS HAVE HAD WIDELY VARYING SOLUTIONS FROM ONE
ANOTHER AND QUITE A BIT OF RUN TO RUN VARIATION ALONG WITH A LOT OF
SPREAD AMONGST THE RESPECTIVE ENSEMBLES. THE EXCEPTION IS THE ECMWF
WHICH HAS BEEN REMARKABLY CONSISTENT. WITH THE LATEST 00Z RUN THE GFS
HAS PRETTY MUCH COME INTO AGREEMENT WITH THE ECMWF. THE GEFS MEAN
SUPPORTS IT AND THERE IS A LOT LESS SPREAD AMONGST THE INDIVIDUAL
MEMBERS. THE GEM HAD BEEN CLOSER FOR SOME TIME ALREADY. THUS
CONFIDENCE IN THE FORECAST OF THE SYNOPTIC PATTERN HAS INCREASED. THE
POSITIONING OF THE LOW ALONG WITH AN ANTICYCLONE CENTERED OVER
SOUTHERN MEXICO ENABLES NORTHWARD ADVECTION OF MOISTURE
ASSOCIATED WITH THE REMNANTS OF FORMER TROPICAL STORM MARTY. THE
ECMWF IS MORE AGGRESSIVE WITH THE MOISTURE THOUGH THEY DO AGREE ON
KEEPING DRY AIR ABOVE ABOUT 600 MB WITH MOISTURE EVEN MORE SHALLOW
OVER THE LOWER ELEVATIONS. DESPITE THE RELATIVELY SHALLOW MOISTURE
AND MEAGER CAPE BOTH ECMWF AND GFS DEPICT NOTABLE QPF OVER SOUTH-
CENTRAL ARIZONA SUNDAY NIGHT AND MONDAY...MAINLY OVER HIGHER TERRAIN.
THIS IS APPARENTLY IN RESPONSE TO DYNAMICAL FORCING ASSOCIATED WITH A
VORT LOBE ROTATING THROUGH. DIV-Q FIELDS LOOK MODEST OVER OUR AREA
AND THE MOISTURE REMAINS ON THE ANTICYCLONIC SIDE OF THE JET. THE
ECMWF IS MORE GENEROUS WITH THE QPF AND THAT MAY BE DUE TO HOW IT
ALSO FORECASTS A COUPLET OF LOWER LEVEL CONVERGENCE AND UPPER LEVEL
DIVERGENCE OVER CENTRAL ARIZONA. CONVECTION IS A POSSIBILITY AS WELL
BUT THERE DOES NOT APPEAR TO BE A LOT OF COOLING IN THE 700-500 MB
LAYER BUT RATHER THE COOLING ALOFT IS HIGHER UP. THAT IS BECAUSE THE
LOW DOES NOT CONTINUE TO TRACK SOUTHWARD BUT MOVES EASTWARD MONDAY
AND TUESDAY. MADE SOME UPWARD ADJUSTMENTS TO THE POPS SUNDAY NIGHT
AND MONDAY PER COORDINATION AND IN ACKNOWLEDGEMENT OF MOS TRENDS BUT
PERSISTENT DRY SLOT PATTERN KEEPS THE POPS FROM BEING HIGH. ONLY
LINGERING SLIGHT CHANCE POPS TUESDAY BEFORE DROPPING OUT ALTOGETHER
WEDNESDAY. AS THE SYSTEM SHIFTS NORTHEASTWARD WITH ONLY WEAK
LINGERING TROUGHING OVER THE INTERIOR WITH SLOW HEIGHT RISES. AS FOR
TEMPS...BC GRIDS DO NOT APPEAR TO BE HANDLING THE COOL ADVECTION SO
NUDGED THE HIGHS DOWNWARD A BIT FROM PREVIOUS FORECASTS. ALSO PUT IN
A SLOWER WARMUP. BREEZINESS SUNDAY INTO TUESDAY...ALONG WITH VARYING
AMOUNTS OF CLOUDINESS...WILL KEEP MINS A BIT WARMER THAN WOULD EXPECT
GIVEN THE COOLER HIGHS.

&&

.AVIATION...
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...AND

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

PERSISTENT STRONG HIGH PRESSURE ALOFT WILL KEEP WINDS RATHER LIGHT AND DIURNAL THROUGH THURSDAY MORNING AT THE TAF SITES. SKIES WILL BE GENERALLY CLEAR WITH MAYBE A BIT OF THIN VERY HIGH CIRRUS BLEEDING THROUGH THE RIDGE AT TIMES AND MOVING ACROSS THE TERMINALS. NO AVIATION CONCERNS THROUGH AT LEAST 18Z THURSDAY. SOME INCREASE IN SOUTH TO SOUTHWEST BREEZINESS WILL DEVELOP THURSDAY AFTERNOON NEAR KIPL/KBLH AS AN UPPER LOW PRESSURE APPROACHES FROM THE NORTHWEST... BUT THE BREEZES SHOULD NOT REALLY AFFECT THE PHOENIX AREA TAF SITES.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.CLIMATE...

RECORD HIGHS FOR TODAY AND THURSDAY...

| DATE | PHOENIX | YUMA |
|-------|-------------|-------------|
| ---- | ----- | ---- |
| OCT 1 | 107 IN 1980 | 110 IN 1980 |

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.FIRE WEATHER...

SATURDAY THROUGH WEDNESDAY... AN EXITING DRY WEATHER SYSTEM WILL KEEP DRY NORTHWEST FLOW ALOFT IN PLACE SATURDAY WITH TEMPERATURES SLIGHTLY ABOVE SEASONAL NORMALS. WINDS WILL BE LIGHT SATURDAY BEFORE ANOTHER SYSTEM LEADS TO BREEZY CONDITIONS...WINDY AT RIDGETOPS... SUNDAY AND MONDAY. THERE WILL BE A SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS EAST OF THE LOWER COLORADO RIVER VALLEY...AND PRIMARILY OVER SOUTH CENTRAL ARIZONA...SUNDAY INTO TUESDAY ALONG WITH A FEW DEGREES OF ADDITIONAL COOLING ACROSS THE FORECAST AREA. MINIMUM HUMIDITY VALUES SATURDAY INTO THE EARLY PART OF NEXT WEEK WILL BE ELEVATED AND RANGE FROM THE UPPER TEENS THROUGH MID 20S FOR THE MOST PART ACROSS THE DESERTS...WITH HIGHER AMOUNTS OVER HIGHER TERRAIN EAST OF PHOENIX. OF NOTE...THIS FORECAST HAS CONSIDERABLE UNCERTAINTY ASSOCIATED WITH IT DUE TO THE WIDE VARIETY OF DIFFERENT SCENARIOS BEING PRESENTED BY THE COMPUTER MODELS. HOWEVER...NONE OF THOSE SCENARIOS WOULD RESULT IN EXTREME CONDITIONS.

&&

.SPOTTER INFORMATION STATEMENT...
SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...
AZ...NONE.
CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...AJ
AVIATION...MEYERS
CLIMATE...MO
FIRE WEATHER...CB

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851
FXUS65 KPSR 011152
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
450 AM MST THU OCT 1 2015

...UPDATED AVIATION...

.SYNOPSIS...

WELL ABOVE NORMAL TEMPERATURES CONTINUE TODAY BEFORE HIGH PRESSURE GIVES WAY TO A COUPLE OF LOW PRESSURE SYSTEMS THAT WILL AFFECT THE WESTERN STATES. THE FIRST ONE WILL BE DRY AND WILL LEAD TO LOCALLY BREEZY CONDITIONS THIS AFTERNOON AND EVENING AS IT APPROACHES BEFORE IT BRINGS COOLER TEMPERATURES FRIDAY. THE NEXT SYSTEM BRINGS ADDITIONAL COOLING AND RAIN CHANCES...MAINLY TO SOUTH-CENTRAL ARIZONA...LATER SUNDAY INTO TUESDAY. ANTICIPATE HIGHS TO REMAIN BELOW 100 FRIDAY THROUGH WEDNESDAY.

&&

.DISCUSSION...

TODAY THROUGH SATURDAY...
ANOTHER VERY WARM DAY TODAY WITH HIGHS VERY CLOSE TO YESTERDAY OVER SOUTH-CENTRAL ARIZONA BUT A BIT COOLER FURTHER WEST. THE COOLING WILL BE IN RESPONSE TO AN APPROACHING LOW PRESSURE SYSTEM CENTERED OFF THE NORTHERN CALIFORNIA COAST EARLY THIS MORNING. AS THE SYSTEM TRACKS EASTWARD ACROSS THE WESTERN STATES IT WILL DISPLACE THE RIDGE. IN THE PROCESS THERE WILL BE AN UPSWING IN THE WIND SPEEDS FOR THIS AFTERNOON AND EVENING...ESPECIALLY OVER SOUTHEAST CALIFORNIA...AND WELCOME COOLING FRIDAY. IN FACT...HIGHS ON THE LOWER DESERTS FRIDAY WILL FINALLY DIP BELOW 100. ANTICIPATE LITTLE CHANGE IN TEMPERATURES SATURDAY. THE SYSTEM WILL BE DRY FOR SOUTHERN ARIZONA AND SOUTHEAST CALIFORNIA WITH THE BRUNT OF IT PASSING TO THE NORTH.

SUNDAY THROUGH WEDNESDAY...

ANOTHER SYSTEM AFFECTS THE DESERT SOUTHWEST BEGINNING SUNDAY AS A DEEP UPPER LOW BECOMES CENTERED OVER CENTRAL CALIFORNIA AS PART OF AN OMEGA PATTERN OVER THE NORTHEAST PACIFIC AND WESTERN NORTH AMERICA. FOR SEVERAL DAYS MODELS HAVE HAD WIDELY VARYING SOLUTIONS FROM ONE ANOTHER AND QUITE A BIT OF RUN TO RUN VARIATION ALONG WITH A LOT OF SPREAD AMONGST THE RESPECTIVE ENSEMBLES. THE EXCEPTION IS THE ECMWF WHICH HAS BEEN REMARKABLY CONSISTENT. WITH THE LATEST 00Z RUN THE GFS HAS PRETTY MUCH COME INTO AGREEMENT WITH THE ECMWF. THE GEFS MEAN SUPPORTS IT AND THERE IS A LOT LESS SPREAD AMONGST THE INDIVIDUAL MEMBERS. THE GEM HAD BEEN CLOSER FOR SOME TIME ALREADY. THUS CONFIDENCE IN THE FORECAST OF THE SYNOPTIC PATTERN HAS INCREASED. THE POSITIONING OF THE LOW ALONG WITH AN ANTICYCLONE CENTERED OVER SOUTHERN MEXICO ENABLES NORTHWARD ADVECTION OF MOISTURE ASSOCIATED WITH THE REMNANTS OF FORMER TROPICAL STORM MARTY. THE ECMWF IS MORE AGGRESSIVE WITH THE MOISTURE THOUGH THEY DO AGREE ON

KEEPING DRY AIR ABOVE ABOUT 600 MB WITH MOISTURE EVEN MORE SHALLOW OVER THE LOWER ELEVATIONS. DESPITE THE RELATIVELY SHALLOW MOISTURE AND MEAGER CAPE BOTH ECMWF AND GFS DEPICT NOTABLE QPF OVER SOUTH-CENTRAL ARIZONA SUNDAY NIGHT AND MONDAY...MAINLY OVER HIGHER TERRAIN. THIS IS APPARENTLY IN RESPONSE TO DYNAMICAL FORCING ASSOCIATED WITH A VORT LOBE ROTATING THROUGH. DIV-Q FIELDS LOOK MODEST OVER OUR AREA AND THE MOISTURE REMAINS ON THE ANTICYCLONIC SIDE OF THE JET. THE ECMWF IS MORE GENEROUS WITH THE QPF AND THAT MAY BE DUE TO HOW IT ALSO FORECASTS A COUPLET OF LOWER LEVEL CONVERGENCE AND UPPER LEVEL DIVERGENCE OVER CENTRAL ARIZONA. CONVECTION IS A POSSIBILITY AS WELL BUT THERE DOES NOT APPEAR TO BE A LOT OF COOLING IN THE 700-500 MB LAYER BUT RATHER THE COOLING ALOFT IS HIGHER UP. THAT IS BECAUSE THE LOW DOES NOT CONTINUE TO TRACK SOUTHWARD BUT MOVES EASTWARD MONDAY AND TUESDAY. MADE SOME UPWARD ADJUSTMENTS TO THE POPS SUNDAY NIGHT AND MONDAY PER COORDINATION AND IN ACKNOWLEDGEMENT OF MOS TRENDS BUT PERSISTENT DRY SLOT PATTERN KEEPS THE POPS FROM BEING HIGH. ONLY LINGERING SLIGHT CHANCE POPS TUESDAY BEFORE DROPPING OUT ALTOGETHER WEDNESDAY. AS THE SYSTEM SHIFTS NORTHEASTWARD WITH ONLY WEAK LINGERING TROUGHING OVER THE INTERIOR WITH SLOW HEIGHT RISES. AS FOR TEMPS...BC GRIDS DO NOT APPEAR TO BE HANDLING THE COOL ADVECTION SO NUDGED THE HIGHS DOWNWARD A BIT FROM PREVIOUS FORECASTS. ALSO PUT IN A SLOWER WARMUP. BREEZINESS SUNDAY INTO TUESDAY...ALONG WITH VARYING AMOUNTS OF CLOUDINESS...WILL KEEP MINS A BIT WARMER THAN WOULD EXPECT GIVEN THE COOLER HIGHS.

&&

.AVIATION...
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...
LITTLE TO NO AVIATION IMPACTS THROUGH FRIDAY MORNING WITH ONLY SOME INCREASE IN HIGH CLOUDS. A FEW WESTERLY WIND GUSTS UP TO 20KT WILL BE POSSIBLE LATE THIS AFTERNOON/EVENING...PRIMARILY AT KPHX.
CONFIDENCE IS GOOD THAT A WESTERLY SFC WIND COMPONENT WILL PERSIST LONGER INTO TONIGHT THAN HAS BEEN EXPERIENCED THE PAST SEVERAL DAYS.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...
A PERIOD OF STRONGER WIND GUSTS LATE THIS AFTERNOON AND EVENING WILL BE THE PRIMARY AVIATION CONCERN FOR SE CALIFORNIA. WESTERLY GUSTS AS HIGH AS 30KT WILL BE POSSIBLE AT KIPL AFTER SUNSET...WITH SPEEDS SOMEWHAT LESS AT KBLH AND DIRECTION MAINTAINING A MORE SWLY COMPONENT. CONFIDENCE IS ONLY MODERATE WITH RESPECT TO TIMING OF WEAKENING SFC WINDS AND DIRECTIONAL SHIFTS LATE TONIGHT.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.CLIMATE...

RECORD HIGHS FOR TODAY...

| DATE | PHOENIX | YUMA |
|-------|-------------|-------------|
| ---- | ----- | ---- |
| OCT 1 | 107 IN 1980 | 110 IN 1980 |

&&

.FIRE WEATHER...

SATURDAY THROUGH WEDNESDAY...

AN EXITING DRY WEATHER SYSTEM WILL KEEP DRY NORTHWEST FLOW ALOFT IN PLACE SATURDAY WITH TEMPERATURES SLIGHTLY ABOVE SEASONAL NORMALS. WINDS WILL BE LIGHT SATURDAY BEFORE ANOTHER SYSTEM LEADS TO BREEZY CONDITIONS...WINDY AT RIDGETOPS...SUNDAY AND MONDAY. THERE WILL BE A SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS EAST OF THE LOWER COLORADO RIVER VALLEY...AND PRIMARILY OVER SOUTH CENTRAL ARIZONA...SUNDAY INTO TUESDAY ALONG WITH A FEW DEGREES OF ADDITIONAL COOLING ACROSS THE FORECAST AREA. MINIMUM HUMIDITY VALUES SATURDAY INTO THE EARLY PART OF NEXT WEEK WILL BE ELEVATED AND RANGE FROM THE UPPER TEENS THROUGH MID 20S FOR THE MOST PART ACROSS THE DESERTS...WITH HIGHER AMOUNTS OVER HIGHER TERRAIN EAST OF PHOENIX. OF NOTE...THIS FORECAST HAS CONSIDERABLE UNCERTAINTY ASSOCIATED WITH IT DUE TO THE WIDE VARIETY OF DIFFERENT SCENARIOS BEING PRESENTED BY THE COMPUTER MODELS. HOWEVER...NONE OF THOSE SCENARIOS WOULD RESULT IN EXTREME CONDITIONS.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

&&

\$\$

VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...AJ

AVIATION...MO

CLIMATE...MO

FIRE WEATHER...CB

IOWA STATE
UNIVERSITY

College of Ag

Department of Agronomy

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302
FXUS66 KSGX 011619
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
915 AM PDT THU OCT 1 2015

.SYNOPSIS...A TROUGH OF LOW PRESSURE MOVING THROUGH CALIFORNIA TODAY WILL BRING COOLER WEATHER TODAY...ALONG WITH STRONG AND GUSTY WESTERLY WINDS LATE TODAY THROUGH TONIGHT IN THE MOUNTAINS AND DESERTS. FRIDAY WILL CONTINUE TO BE RATHER COOL WITH A DEEP MARINE LAYER...HOWEVER SATURDAY WILL FEATURE A BRIEF WARMUP. ON SUNDAY AND MONDAY A LOW PRESSURE SYSTEM WILL MOVE THROUGH CALIFORNIA. IT WILL BRING MUCH COOLER WEATHER AND A CHANCE OF SHOWERS MAINLY FROM THE COAST TO THE MOUNTAINS. RAINFALL AMOUNTS WILL GENERALLY BE ON THE LIGHT SIDE BUT A FEW LOCATIONS COULD SEE UP TO ONE-QUARTER OF AN INCH. DRY AND WARMER WEATHER WILL FOLLOW TUESDAY AND WEDNESDAY.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

VERY LITTLE MARINE STRATUS OR FOG THIS MORNING AND NOW IT IS MAINLY CLEAR ACROSS THE ENTIRE REGION. THE SOUTHERN EXTENT OF A LARGE BAND OF CLOUDS SLOWLY BUILDING SOUTH WILL MOVE INTO THE REGION THIS AFTERNOON WITH GRADUALLY INCREASING CLOUDINESS FROM THE NORTH LATE THIS AFTERNOON. THE UPPER LOW WILL MOVE ACROSS NORTH CENTRAL CALIFORNIA LATE TODAY...SWINGING THE BOTTOM OF A SHORTWAVE TROUGH ACROSS SOUTHERN CALIFORNIA TONIGHT. WINDS WILL INCREASE LATER THIS AFTERNOON WITH GUSTS THROUGH THE MOST FAVORED PASSES APPROACHING ADVISORY LEVEL. TONIGHT WILL FEATURE STRONG ONSHORE FLOW AND COOLER MARINE INFLUENCED AIR PENETRATING INLAND TO THE MOUNTAIN SLOPES.

...REMAINDER OF PREVIOUS DISCUSSION (ISSUED AT 300 AM PDT)...

THE TROUGH SLOWLY MOVES OUT ON FRIDAY. SATURDAY SHOULD HAVE A SHALLOWER MARINE LAYER WITH NOT A LOT OF COASTAL CLOUDS...AND WARMER DAYTIME WEATHER. WHILE WE ENJOY A PRETTY NICE SATURDAY...A COMPACT AND ROBUST CUT OFF LOW WILL DROP STRAIGHT DOWN THE WEST COAST AND INTO SOUTHERN CALIFORNIA SUNDAY. SOUTHERLY WINDS WILL PICK UP AND INITIALLY THIS SYSTEM WILL GREATLY DEEPEN THE MARINE LAYER AND PRODUCE SHOWERS EARLY SUNDAY MORNING. DURING THE DAY THE CHANCE OF SHOWERS WILL EXTEND TO MOUNTAINS AS WELL. THE LOW SLOWLY MOVES EAST MONDAY AND WEAKENS AS IT DOES SO SHOWERS WILL DIMINISH BY LATE MONDAY. MODELS SHOW MUCH BETTER CONSENSUS ON TIMING WHICH RAISES CONFIDENCE...BUT NOT SUCH GREAT AGREEMENT ON LOCATION. RAINFALL AMOUNTS WILL BE QUITE LIGHT...NOT EXPECTING MORE THAN A QUARTER INCH OR SO...AND EVEN A DUSTING OF SNOW ON OUR HIGHEST PEAKS. IT WILL BE COOL FOR SURE DURING THIS MINI STORM...WITH 70S MOST COMMON IN THE

COASTAL BASIN AND HIGH DESERT...50 AND 60S IN THE MOUNTAINS AND ONLY
80S IN THE LOW DESERT. HIGH PRESSURE LOOKS TO REBUILD TUESDAY AND
WEDNESDAY FOR FAIR AND WARMER WEATHER.

&&

.AVIATION...

011530Z...COAST/VALLEYS...MOSTLY CLEAR WITH UNRESTRICTED VIS THROUGH
02/00Z. AFT 00Z...BKN-OVC020 TOPS 025 EXPANDING IN COVERAGE AND
SPREADING ACROSS THE COASTAL AND VALLEY AIRPORTS THROUGH 15Z. BTWN
15-18Z...BECMG SCT020-025.

MOUNTAINS/DESERTS...WEST TO SOUTHWEST WINDS 15-25 KT WITH GUSTS 35-
40 KT OVER MTN RIDGES AND ALONG DESERT SLOPES INTO THE ADJACENT
DESERT AREAS TODAY AND TONIGHT. MOD-STG UDDFS/LLWS OVER AND EAST OF
THE MTNS. MOSTLY CLEAR WITH UNRESTRICTED VIS.

&&

.MARINE...

830 AM...NORTHWEST WIND GUSTS OF 20 TO 25 KT OVER THE OUTER WATERS
THIS AFTERNOON THROUGH EARLY FRIDAY MORNING AS A TROUGH MOVES ACROSS
THE REGION. A SMALL CRAFT ADVISORY WILL BE IN EFFECT FROM 11 AM
TODAY THROUGH 3 AM FRIDAY FOR THE OUTER WATERS. WINDS WILL DIMINISH
BY MID-MORNING FRIDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE
ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...SMALL CRAFT ADVISORY FROM 11 AM THIS MORNING TO 3 AM PDT FRIDAY
FOR WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER
EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...JMB

AVIATION/MARINE...MOEDE

PREVIOUS...MM

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348
FXUS65 KPSR 011616
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
916 AM MST THU OCT 1 2015

.SYNOPSIS...

WELL ABOVE NORMAL TEMPERATURES CONTINUE TODAY BEFORE HIGH PRESSURE GIVES WAY TO A COUPLE OF LOW PRESSURE SYSTEMS THAT WILL AFFECT THE WESTERN STATES. THE FIRST ONE WILL BE DRY AND WILL LEAD TO LOCALLY BREEZY CONDITIONS THIS AFTERNOON AND EVENING AS IT APPROACHES BEFORE IT BRINGS COOLER TEMPERATURES FRIDAY. THE NEXT SYSTEM BRINGS ADDITIONAL COOLING AND RAIN CHANCES...MAINLY TO SOUTH-CENTRAL ARIZONA...LATER SUNDAY INTO TUESDAY. ANTICIPATE HIGHS TO REMAIN BELOW 100 FRIDAY THROUGH WEDNESDAY.

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.DISCUSSION...

LATEST ACARS SOUNDINGS AND RAP ANALYSIS SHOW A WARM VEERING PROFILE ACROSS THE DESERT SOUTHWEST ASSOCIATED WITH A MID-TROPOSPHERIC ANTICYCLONE CENTERED ACROSS SONORA. 12Z TWC SOUNDING RECORDED AN 850 MB TEMPERATURE OF 26.2C WHICH IS NEAR THE RECORD FOR THE DAY. THIS WILL TRANSLATE TO THE SURFACE IN FORM OF NEAR RECORD HIGH TEMPERATURES. FORECAST FOR PHOENIX IS 105 DEGREES...WHICH IS ONLY 2 DEGREES BELOW THE DAILY RECORD OF 107. THE DAILY RECORD IS OUT OF REACH AT YUMA. NO SIGNIFICANT CHANGES TO THE FORECAST ARE NEEDED THIS MORNING.

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.PREVIOUS DISCUSSION...

TODAY THROUGH SATURDAY...
ANOTHER VERY WARM DAY TODAY WITH HIGHS VERY CLOSE TO YESTERDAY OVER SOUTH-CENTRAL ARIZONA BUT A BIT COOLER FURTHER WEST. THE COOLING WILL BE IN RESPONSE TO AN APPROACHING LOW PRESSURE SYSTEM CENTERED OFF THE NORTHERN CALIFORNIA COAST EARLY THIS MORNING. AS THE SYSTEM TRACKS EASTWARD ACROSS THE WESTERN STATES IT WILL DISPLACE THE RIDGE. IN THE PROCESS THERE WILL BE AN UPSWING IN THE WIND SPEEDS FOR THIS AFTERNOON AND EVENING...ESPECIALLY OVER SOUTHEAST CALIFORNIA...AND WELCOME COOLING FRIDAY. IN FACT...HIGHS ON THE LOWER DESERTS FRIDAY WILL FINALLY DIP BELOW 100. ANTICIPATE LITTLE CHANGE IN TEMPERATURES SATURDAY. THE SYSTEM WILL BE DRY FOR SOUTHERN ARIZONA AND SOUTHEAST CALIFORNIA WITH THE BRUNT OF IT PASSING TO THE NORTH.

SUNDAY THROUGH WEDNESDAY...

ANOTHER SYSTEM AFFECTS THE DESERT SOUTHWEST BEGINNING SUNDAY AS A DEEP UPPER LOW BECOMES CENTERED OVER CENTRAL CALIFORNIA AS PART OF AN OMEGA PATTERN OVER THE NORTHEAST PACIFIC AND WESTERN NORTH AMERICA. FOR SEVERAL DAYS MODELS HAVE HAD WIDELY VARYING SOLUTIONS FROM ONE

ANOTHER AND QUITE A BIT OF RUN TO RUN VARIATION ALONG WITH A LOT OF SPREAD AMONGST THE RESPECTIVE ENSEMBLES. THE EXCEPTION IS THE ECMWF WHICH HAS BEEN REMARKABLY CONSISTENT. WITH THE LATEST 00Z RUN THE GFS HAS PRETTY MUCH COME INTO AGREEMENT WITH THE ECMWF. THE GEFS MEAN SUPPORTS IT AND THERE IS A LOT LESS SPREAD AMONGST THE INDIVIDUAL MEMBERS. THE GEM HAD BEEN CLOSER FOR SOME TIME ALREADY. THUS CONFIDENCE IN THE FORECAST OF THE SYNOPTIC PATTERN HAS INCREASED. THE POSITIONING OF THE LOW ALONG WITH AN ANTICYCLONE CENTERED OVER SOUTHERN MEXICO ENABLES ENABLES NORTHWARD ADVECTION OF MOISTURE ASSOCIATED WITH THE REMNANTS OF FORMER TROPICAL STORM MARTY. THE ECMWF IS MORE AGGRESSIVE WITH THE MOISTURE THOUGH THEY DO AGREE ON KEEPING DRY AIR ABOVE ABOUT 600 MB WITH MOISTURE EVEN MORE SHALLOW OVER THE LOWER ELEVATIONS. DESPITE THE RELATIVELY SHALLOW MOISTURE AND MEAGER CAPE BOTH ECMWF AND GFS DEPICT NOTABLE QPF OVER SOUTH-CENTRAL ARIZONA SUNDAY NIGHT AND MONDAY...MAINLY OVER HIGHER TERRAIN. THIS IS APPARENTLY IN RESPONSE TO DYNAMICAL FORCING ASSOCIATED WITH A VORT LOBE ROTATING THROUGH. DIV-Q FIELDS LOOK MODEST OVER OUR AREA AND THE MOISTURE REMAINS ON THE ANTICYCLONIC SIDE OF THE JET. THE ECMWF IS MORE GENEROUS WITH THE QPF AND THAT MAY BE DUE TO HOW IT ALSO FORECASTS A COUPLET OF LOWER LEVEL CONVERGENCE AND UPPER LEVEL DIVERGENCE OVER CENTRAL ARIZONA. CONVECTION IS A POSSIBILITY AS WELL BUT THERE DOES NOT APPEAR TO BE A LOT OF COOLING IN THE 700-500 MB LAYER BUT RATHER THE COOLING ALOFT IS HIGHER UP. THAT IS BECAUSE THE LOW DOES NOT CONTINUE TO TRACK SOUTHWARD BUT MOVES EASTWARD MONDAY AND TUESDAY. MADE SOME UPWARD ADJUSTMENTS TO THE POPS SUNDAY NIGHT AND MONDAY PER COORDINATION AND IN ACKNOWLEDGEMENT OF MOS TRENDS BUT PERSISTENT DRY SLOT PATTERN KEEPS THE POPS FROM BEING HIGH. ONLY LINGERING SLIGHT CHANCE POPS TUESDAY BEFORE DROPPING OUT ALTOGETHER WEDNESDAY. AS THE SYSTEM SHIFTS NORTHEASTWARD WITH ONLY WEAK LINGERING TROUGHING OVER THE INTERIOR WITH SLOW HEIGHT RISES. AS FOR TEMPS...BC GRIDS DO NOT APPEAR TO BE HANDLING THE COOL ADVECTION SO NUDGED THE HIGHS DOWNWARD A BIT FROM PREVIOUS FORECASTS. ALSO PUT IN A SLOWER WARMUP. BREEZINESS SUNDAY INTO TUESDAY...ALONG WITH VARYING AMOUNTS OF CLOUDINESS...WILL KEEP MINS A BIT WARMER THAN WOULD EXPECT GIVEN THE COOLER HIGHS.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...

LITTLE TO NO AVIATION IMPACTS THROUGH FRIDAY MORNING WITH ONLY SOME INCREASE IN HIGH CLOUDS. A FEW WESTERLY WIND GUSTS UP TO 20KT WILL BE POSSIBLE LATE THIS AFTERNOON/EVENING...PRIMARILY AT KPHX.

CONFIDENCE IS GOOD THAT A WESTERLY SFC WIND COMPONENT WILL PERSIST LONGER INTO TONIGHT THAN HAS BEEN EXPERIENCED THE PAST SEVERAL DAYS.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

A PERIOD OF STRONGER WIND GUSTS LATE THIS AFTERNOON AND EVENING WILL BE THE PRIMARY AVIATION CONCERN FOR SE CALIFORNIA. WESTERLY GUSTS AS HIGH AS 30KT WILL BE POSSIBLE AT KIPL AFTER SUNSET...WITH SPEEDS SOMEWHAT LESS AT KBLH AND DIRECTION MAINTAINING A MORE SWLY COMPONENT. CONFIDENCE IS ONLY MODERATE WITH RESPECT TO TIMING OF WEAKENING SFC WINDS AND DIRECTIONAL SHIFTS LATE TONIGHT.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.CLIMATE...

RECORD HIGHS FOR TODAY...

| DATE | PHOENIX | YUMA |
|-------|-------------|-------------|
| ---- | ----- | ---- |
| OCT 1 | 107 IN 1980 | 110 IN 1980 |

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.FIRE WEATHER...

SATURDAY THROUGH WEDNESDAY...

AN EXITING DRY WEATHER SYSTEM WILL KEEP DRY NORTHWEST FLOW ALOFT IN PLACE SATURDAY WITH TEMPERATURES SLIGHTLY ABOVE SEASONAL NORMALS. WINDS WILL BE LIGHT SATURDAY BEFORE ANOTHER SYSTEM LEADS TO BREEZY CONDITIONS...WINDY AT RIDGETOPS...SUNDAY AND MONDAY. THERE WILL BE A SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS EAST OF THE LOWER COLORADO RIVER VALLEY...AND PRIMARILY OVER SOUTH CENTRAL ARIZONA...SUNDAY INTO TUESDAY ALONG WITH A FEW DEGREES OF ADDITIONAL COOLING ACROSS THE FORECAST AREA. MINIMUM HUMIDITY VALUES SATURDAY INTO THE EARLY PART OF NEXT WEEK WILL BE ELEVATED AND RANGE FROM THE UPPER TEENS THROUGH MID 20S FOR THE MOST PART ACROSS THE DESERTS...WITH HIGHER AMOUNTS OVER HIGHER TERRAIN EAST OF PHOENIX. OF NOTE...THIS FORECAST HAS CONSIDERABLE UNCERTAINTY ASSOCIATED WITH IT DUE TO THE WIDE VARIETY OF DIFFERENT SCENARIOS BEING PRESENTED BY THE COMPUTER MODELS. HOWEVER...NONE OF THOSE SCENARIOS WOULD RESULT IN EXTREME CONDITIONS.

&&

.SPOTTER INFORMATION STATEMENT...

SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING PROCEDURES.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...HIRSCH

PREVIOUS DISCUSSION...AJ

AVIATION...MO

CLIMATE...MO

FIRE WEATHER...CB

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242
FXUS66 KSGX 012118
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
218 PM PDT THU OCT 1 2015

.SYNOPSIS...A TROUGH OF LOW PRESSURE MOVING THROUGH CALIFORNIA WILL BRING COOLER WEATHER ALONG WITH STRONG AND GUSTY WESTERLY WINDS THIS EVENING. FRIDAY WILL CONTINUE TO BE RATHER COOL WITH A DEEP MARINE LAYER...HOWEVER SATURDAY WILL FEATURE A BRIEF WARMUP. ON SUNDAY AND MONDAY A LOW PRESSURE SYSTEM WILL MOVE THROUGH CALIFORNIA. IT WILL BRING MUCH COOLER WEATHER AND A CHANCE OF RAIN SHOWERS MAINLY FROM THE COAST TO THE MOUNTAINS. RAINFALL AMOUNTS WILL GENERALLY BE ON THE LIGHT SIDE BUT A FEW LOCATIONS COULD SEE AROUND ONE-QUARTER OF AN INCH WITH A LITTLE HIGHER TOTALS IN THE MOUNTAINS POSSIBLE. DRY AND WARMER WEATHER WILL FOLLOW FOR TUESDAY AND WEDNESDAY.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

GRADIENTS HAVE INCREASED THIS AFTERNOON WITH THE LOCAL SAN DIEGO TO THE LOWER DESERTS GRADIENT RUNNING ABOUT 5 TO 6 MB. WIND GUSTS IN THE FAVORED LOCATIONS IN THE MOUNTAINS AND GAPS HAVE INCREASED AS A RESULT WITH A FEW REPORTS AROUND 40 MPH ATTM. OCCASIONAL HIGH CLOUD COVER WILL MOVE THROUGH THE AREA THROUGH FRIDAY MORNING WITH THE VERY BOTTOM OF THE TROUGH PASSING JUST TO THE NORTH OF US THIS EVENING. TEMPERATURES WILL REMAIN RELATIVELY COOL THROUGH FRIDAY WITH BRISK GRADIENTS AND UPPER LEVEL FLOW.

THE OFFSHORE FLOW PATTERN PREVIOUSLY NOTED FOR SATURDAY IS NOW LOOKING NOT QUITE AS MUCH OF AN INFLUENCE SO THAT TEMPERATURES WILL TREND ABOVE NORMAL BUT NOT EXCESSIVELY SO.

SUNDAY AND MONDAY WILL FEATURE A DRAMATIC COOL DOWN DUE TO A LARGE DEEP LOW DROPPING SOUTH ALONG THE CALIFORNIA COAST. THE MEDIUM RANGE MODELS ARE IN BETTER AGREEMENT NOW TO SWING THE LOW EAST ACROSS CENTRAL CALIFORNIA...AND SWING A DEEP TROUGH ACROSS SOUTHERN CALIFORNIA. RAIN CHANCES WILL BE MODERATE FROM SUNDAY THROUGH EARLY TUESDAY MORNING...BUT WILL LIKELY COME IN PERIODS OF LIGHT RAIN SHOWERS. IT IS TOO EARLY TO TRY TO TIME INDIVIDUAL WAVES OF POSSIBLE RAIN SHOWERS SO WE ARE INDICATING MODERATE CHANCES PRETTY MUCH FROM THE COAST TO THE MOUNTAINS DURING THIS TIME PERIOD. VERY DYNAMIC SYSTEM WILL BE ONLY LIMITED BY MOISTURE TRANSPORT. WIND GUSTS COULD BE QUITE STRONG COINCIDENT WITH THE TROUGH PASSAGE AS WELL WITH GUSTS THROUGH THE GAPS POSSIBLY TOPPING 60 MPH.

MID NEXT WEEK WILL LIKELY FEATURE BRISK ZONAL FLOW WITH MODERATE TEMPERATURES...THEN IT LOOKS LIKE THAT PESKY EAST PAC RIDGE WILL BUILD THROUGH LATE NEXT WEEK...BRINGING ANOTHER PRONOUNCED WARMING PERIOD FOR SOUTHERN CALIFORNIA.

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.AVIATION...

012000Z...COAST/VALLEYS...SKC-SCT020 WITH UNRESTRICTED VIS THROUGH 02/00Z. AFT 00Z...SCT-BKN020 TOPS 025 BECOMING BKN-OVC020 AND SPREADING ACROSS THE COASTAL AND VALLEY AIRPORTS THROUGH 15Z. AFT 15Z...BKN020-025 BECMG SCT020-025. AFT 18Z SCT020-025.

MOUNTAINS/DESERTS...WEST TO SOUTHWEST WINDS 15-25 KT WITH GUSTS 35-40 KT OVER MTN RIDGES AND ALONG DESERT SLOPES INTO THE ADJACENT DESERT AREAS THROUGH EARLY FRIDAY MORNING. MOD-STG UDDFS/LLWS OVER AND EAST OF THE MTNS. MOSTLY CLEAR WITH UNRESTRICTED VIS.

&&

.MARINE...

100 PM...NORTHWEST WIND GUSTS OF 20 TO 25 KT OVER THE OUTER WATERS THROUGH EARLY FRIDAY MORNING. A SMALL CRAFT ADVISORY WILL BE IN EFFECT FROM 11 AM TODAY THROUGH 3 AM FRIDAY FOR THE OUTER WATERS. THE WINDS WILL DIMINISH BY MID-MORNING FRIDAY. DRY ON SATURDAY. SCATTERED SHOWERS SUNDAY.

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.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...SMALL CRAFT ADVISORY UNTIL 3 AM PDT FRIDAY FOR WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...BROTHERTON

AVIATION/MARINE...MOEDE

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043
FXUS65 KPSR 012150
AFDPSR

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PHOENIX AZ
250 PM MST THU OCT 1 2015

.SYNOPSIS...

A COUPLE OF LOW PRESSURE SYSTEMS WILL AFFECT THE WESTERN STATES THE NEXT FEW DAYS. THE FIRST ONE WILL BE DRY AND WILL LEAD TO LOCALLY BREEZY CONDITIONS THIS EVENING AS IT APPROACHES BEFORE IT BRINGS COOLER TEMPERATURES THROUGH SATURDAY. THE NEXT SYSTEM WILL BRING ADDITIONAL COOLING AND RAIN CHANCES...MAINLY TO SOUTH-CENTRAL ARIZONA...LATER SUNDAY INTO TUESDAY. ANTICIPATE HIGHS TO REMAIN BELOW 100 FRIDAY THROUGH WEDNESDAY.

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.DISCUSSION...

MID-TROPOSPHERIC ANTICYCLONE REMAINS POSITIONED ACROSS SONORA...RESULTING IN A WARM VEERING PROFILE THROUGH THE MEAN LAYER. TEMPERATURES HAVE BEEN AS WARM AS 106 DEGREES THIS AFTERNOON IN PHOENIX...WHICH IS 1 DEGREE SHORT OF THE DAILY RECORD. DRYING TREND ALSO CONTINUES WITH SURFACE DEWPOINTS A FEW DEGREES LOWER THAN THOSE OBSERVED AT THIS TIME YESTERDAY.

NOT EXPECTING MUCH OF AN IMPACT FROM THE TROUGH CURRENTLY POSITIONED ACROSS NORTHERN CA. MODELS CONTINUE TO INDICATE A PERIOD OF BREEZY CONDITIONS THIS EVENING ACROSS SOUTHEASTERN CA AND AGAIN FRIDAY...MAINLY ACROSS EASTERN AZ. MAIN IMPACT WILL BE THE BEGINNING OF A COOLING TREND IN RESPONSE TO LOWER HEIGHTS/THICKNESSES. FORECAST HIGH FOR PHOENIX FRIDAY IS 98 DEGREES...WHICH MEANS THAT TODAY'S HIGH MAY BE THE LAST 100+ DEGREE READING FOR QUITE SOME TIME. ADDITIONAL COOLING IS LIKELY FOR SATURDAY.

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.PREVIOUS DISCUSSION...SUNDAY THROUGH WEDNESDAY... ANOTHER SYSTEM AFFECTS THE DESERT SOUTHWEST BEGINNING SUNDAY AS A DEEP UPPER LOW BECOMES CENTERED OVER CENTRAL CALIFORNIA AS PART OF AN OMEGA PATTERN OVER THE NORTHEAST PACIFIC AND WESTERN NORTH AMERICA. FOR SEVERAL DAYS MODELS HAVE HAD WIDELY VARYING SOLUTIONS FROM ONE ANOTHER AND QUITE A BIT OF RUN TO RUN VARIATION ALONG WITH A LOT OF SPREAD AMONGST THE RESPECTIVE ENSEMBLES. THE EXCEPTION IS THE ECMWF WHICH HAS BEEN REMARKABLY CONSISTENT. WITH THE LATEST 00Z RUN THE GFS HAS PRETTY MUCH COME INTO AGREEMENT WITH THE ECMWF. THE GEFS MEAN SUPPORTS IT AND THERE IS A LOT LESS SPREAD AMONGST THE INDIVIDUAL MEMBERS. THE GEM HAD BEEN CLOSER FOR SOME TIME ALREADY. THUS CONFIDENCE IN THE FORECAST OF THE SYNOPTIC PATTERN HAS INCREASED. THE POSITIONING OF THE LOW ALONG WITH AN ANTICYCLONE CENTERED OVER SOUTHERN MEXICO ENABLES NORTHWARD ADVECTION OF MOISTURE

ASSOCIATED WITH THE REMNANTS OF FORMER TROPICAL STORM MARTY. THE ECMWF IS MORE AGGRESSIVE WITH THE MOISTURE THOUGH THEY DO AGREE ON KEEPING DRY AIR ABOVE ABOUT 600 MB WITH MOISTURE EVEN MORE SHALLOW OVER THE LOWER ELEVATIONS. DESPITE THE RELATIVELY SHALLOW MOISTURE AND MEAGER CAPE BOTH ECMWF AND GFS DEPICT NOTABLE QPF OVER SOUTH-CENTRAL ARIZONA SUNDAY NIGHT AND MONDAY...MAINLY OVER HIGHER TERRAIN. THIS IS APPARENTLY IN RESPONSE TO DYNAMICAL FORCING ASSOCIATED WITH A VORT LOBE ROTATING THROUGH. DIV-Q FIELDS LOOK MODEST OVER OUR AREA AND THE MOISTURE REMAINS ON THE ANTICYCLONIC SIDE OF THE JET. THE ECMWF IS MORE GENEROUS WITH THE QPF AND THAT MAY BE DUE TO HOW IT ALSO FORECASTS A COUPLET OF LOWER LEVEL CONVERGENCE AND UPPER LEVEL DIVERGENCE OVER CENTRAL ARIZONA. CONVECTION IS A POSSIBILITY AS WELL BUT THERE DOES NOT APPEAR TO BE A LOT OF COOLING IN THE 700-500 MB LAYER BUT RATHER THE COOLING ALOFT IS HIGHER UP. THAT IS BECAUSE THE LOW DOES NOT CONTINUE TO TRACK SOUTHWARD BUT MOVES EASTWARD MONDAY AND TUESDAY. MADE SOME UPWARD ADJUSTMENTS TO THE POPS SUNDAY NIGHT AND MONDAY PER COORDINATION AND IN ACKNOWLEDGEMENT OF MOS TRENDS BUT PERSISTENT DRY SLOT PATTERN KEEPS THE POPS FROM BEING HIGH. ONLY LINGERING SLIGHT CHANCE POPS TUESDAY BEFORE DROPPING OUT ALTOGETHER WEDNESDAY. AS THE SYSTEM SHIFTS NORTHEASTWARD WITH ONLY WEAK LINGERING TROUGHING OVER THE INTERIOR WITH SLOW HEIGHT RISES. AS FOR TEMPS...BC GRIDS DO NOT APPEAR TO BE HANDLING THE COOL ADVECTION SO NUDGED THE HIGHS DOWNWARD A BIT FROM PREVIOUS FORECASTS. ALSO PUT IN A SLOWER WARMUP. BREEZINESS SUNDAY INTO TUESDAY...ALONG WITH VARYING AMOUNTS OF CLOUDINESS...WILL KEEP MINS A BIT WARMER THAN WOULD EXPECT GIVEN THE COOLER HIGHS.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA...AND KSDL...

LITTLE TO NO AVIATION IMPACTS THROUGH FRIDAY MORNING WITH ONLY SOME INCREASE IN HIGH CLOUDS. A FEW WESTERLY WIND GUSTS UP TO 20KT WILL BE POSSIBLE LATE THIS AFTERNOON/EVENING...PRIMARILY AT KPHX.

CONFIDENCE IS GOOD THAT A WESTERLY SFC WIND COMPONENT WILL PERSIST LONGER INTO TONIGHT THAN HAS BEEN EXPERIENCED THE PAST SEVERAL DAYS.

SOUTHEAST CALIFORNIA/SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

A PERIOD OF STRONGER WIND GUSTS LATE THIS AFTERNOON AND EVENING WILL BE THE PRIMARY AVIATION CONCERN FOR SE CALIFORNIA. WESTERLY GUSTS AS HIGH AS 30KT WILL BE POSSIBLE AT KIPL AFTER SUNSET...WITH SPEEDS SOMEWHAT LESS AT KBLH AND DIRECTION MAINTAINING A MORE SWLY COMPONENT. CONFIDENCE IS ONLY MODERATE WITH RESPECT TO TIMING OF WEAKENING SFC WINDS AND DIRECTIONAL SHIFTS LATE TONIGHT.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.CLIMATE...

RECORD HIGHS FOR TODAY...

| DATE | PHOENIX | YUMA |
|------|---------|------|
|------|---------|------|

OCT 1 107 IN 1980 110 IN 1980

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.FIRE WEATHER...
SUNDAY THROUGH THURSDAY...THERE WILL BE A SLIGHT CHANCE OF SHOWERS
AND THUNDERSTORMS EAST OF THE LOWER COLORADO RIVER VALLEY...AND
PRIMARILY OVER SOUTH CENTRAL ARIZONA...SUNDAY INTO TUESDAY ALONG WITH
A FEW DEGREES OF ADDITIONAL COOLING ACROSS THE FORECAST AREA. MINIMUM
HUMIDITY VALUES INTO THE EARLY PART OF NEXT WEEK WILL BE ELEVATED
AND RANGE FROM THE UPPER TEENS THROUGH MID 20S FOR THE MOST PART
ACROSS THE DESERTS...WITH HIGHER AMOUNTS OVER HIGHER TERRAIN EAST OF
PHOENIX.

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.SPOTTER INFORMATION STATEMENT...
SPOTTERS ARE ENCOURAGED TO REPORT BASED ON STANDARD OPERATING
PROCEDURES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...
AZ...NONE.
CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...HIRSCH
PREVIOUS DISCUSSION...AJ
AVIATION...MO
CLIMATE...MO
FIRE WEATHER...HIRSCH/CB

IOWA STATE UNIVERSITY

College of Ag
Department of Agronomy

Department of Agronomy
716 Farm House Ln
Ames, IA 50011

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843
FXUS66 KSGX 020411
AFDSGX

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE SAN DIEGO CA
910 PM PDT THU OCT 1 2015

.SYNOPSIS...STRONG AND GUSTY WEST WINDS THIS EVENING WILL CONTINUE THROUGH FRIDAY MORNING. DAYTIME TEMPERATURES WILL BE A LITTLE LOWER ON FRIDAY...WITH A DEEP MARINE LAYER AND MORE EXTENSIVE LOW CLOUDS IN THE MORNING. SATURDAY WILL BRING A MINOR WARMUP. ON SUNDAY AND MONDAY A LOW PRESSURE SYSTEM WILL MOVE THROUGH CALIFORNIA. IT WILL BRING MUCH COOLER WEATHER AND A CHANCE OF SHOWERS MAINLY WEST OF THE MOUNTAINS. RAINFALL AMOUNTS WILL GENERALLY BE LIGHT...WITH HIGHER TOTALS IN THE MOUNTAINS. DRY AND WARMER WEATHER WILL FOLLOW FOR TUESDAY THROUGH THURSDAY.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

THIS EVENING SATELLITE IMAGERY SHOWS HIGH CLOUDS STREAMING ACROSS THE REGION AND A FEW LOW CLOUDS NEAR THE COASTLINE. HIGH TEMPS TODAY WERE MOSTLY ABOUT 3 TO 7 DEGREES LOWER THAN YESTERDAY AND THE ONSHORE FLOW HAS INCREASED SIGNIFICANTLY...WITH SEVERAL LOCATIONS IN THE MOUNTAINS REPORTING WIND GUSTS OF 25-30 MPH IN THE LAST HOUR.

THE GUSTY WEST WINDS SHOULD CONTINUE THROUGH FRI MORNING AS A LOW PRESSURE SYSTEM MOVES INLAND ACROSS CENTRAL AND NORTHERN CALIFORNIA. LOCAL WIND GUSTS OF AROUND 50 MPH WILL BE POSSIBLE AT TIMES. WINDS WILL BEGIN DECREASING FRI AFTERNOON. LOW CLOUDS SHOULD ALSO INCREASE TONIGHT AND SPREAD INLAND BY FRI MORNING. THE COOLING TREND WILL CONTINUE...WITH DAYTIME HIGH TEMPS IN THE 70S AND 80S WEST OF THE MTNS.

A LITTLE WARMER UNDER MOSTLY FAIR SKIES...WITH LIGHTER WINDS ON SAT AS THE LOW MOVES TO THE EAST AND WE FIND OURSELVES BETWEEN LOW PRESSURE SYSTEMS WITH DRY NW FLOW ALOFT.

A COLDER...MORE INTENSE LOW MOVES IN FROM THE NORTH BRINGING MORE CLOUDS AND CHANCES FOR SHOWERS SUN THROUGH TUE MORNING. AS THE COLDEST AIR MOVES IN SUN NIGHT/MON MORNING A DUSTING OF SNOW WILL BE POSSIBLE ON THE HIGHEST PEAKS OF THE SAN BERNARDINO AND SAN JACINTO MTNS...BUT IT IS UNLIKELY TO STICK. DUE TO THE STRENGTH AND TRACK OF THE LOW...WE CAN EXPECT STRONG AND GUSTY WEST WINDS ACROSS THE MTNS. WINDS WILL BE STRONGEST ON SUN WITH GUSTS TO 60 MPH POSSIBLE IN WIND-PRONE LOCATIONS. DAYTIME TEMPS ON SUN AND MON WILL REMAIN IN THE 70S WEST OF THE MTNS...AND OVERNIGHT LOWS COULD DIP INTO THE 50S OVER MUCH OF THE INLAND VALLEYS.

FOR THE MIDDLE OF NEXT WEEK...TEMPS RECOVER UNDER MOSTLY FAIR SKIES
AS THE LOW PRESSURE SYSTEM MOVES EAST AND A WEAK UPPER RIDGE BUILDS
IN FROM THE WEST.

&&

.AVIATION...

020330Z...COAST/VALLEYS...LOW CLOUDS...WITH BASES AROUND 1500 FT MSL
AND TOPS NEAR 2100 FT MSL...WILL DEVELOP ALONG THE COAST TONIGHT AND
PUSH INTO THE INLAND VALLEYS BY EARLY FRI MORNING. VIS OF 2-4 SM BR
IS POSSIBLE WHERE LOW CLOUDS NEAR HIGHER TERRAIN. STRATUS WILL CLEAR
TOWARDS THE COAST BY MID TO LATE FRI MORNING. FORECASTER CONFIDENCE
IN LOW CLOUD FORECAST IS MODERATE.

MTNS/DESERTS...MOSTLY CLEAR WITH UNRESTRICTED VIS THROUGH FRI
EVENING.

&&

.MARINE...

830 PM...NW WIND GUSTS OF 20 TO 25 KT IS POSSIBLE OVER THE OUTER
WATERS THROUGH EARLY FRIDAY MORNING. A SMALL CRAFT ADVISORY IS IN
EFFECT THROUGH 3 AM FRIDAY FOR THE OUTER WATERS. THE WINDS WILL
DIMINISH BY MID-MORNING FRIDAY.

A LOW PRESSURE SYSTEM MOVING BY TO THE NORTH WILL CREATE THE
POSSIBILITY OF SHOWERS LATE SUNDAY THROUGH EARLY TUESDAY. CONDITIONS
WILL IMPROVE BY LATE TUESDAY MORNING.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE
ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...SMALL CRAFT ADVISORY UNTIL 3 AM PDT FRIDAY FOR WATERS FROM SAN
MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT
INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...PG

AVIATION/MARINE...JJT